

DATA CORRELATION AND ANALYSIS OF ARC TUNNEL AND WIND TUNNEL TESTS OF RSI JOINTS AND GAPS

PHASE II FINAL REPORT

VOLUME II – DATA REPORT

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MCDONNELL DOUGLAS ASTRONAUTICS COMPANY - EAST

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FOREWORD

This report summarizes the work conducted by McDonnell Douglas Astronautics Company-East (MDAC-E) in St. Louis, Missouri for the Structures and Mechanics Division of the NASA Johnson Space Center (NASA-JSC) under Contract NAS9-14012, "Data Correlation and Analysis of Arc Tunnel and Wind Tunnel Test of RSI Joints and Gaps, Phase II." This final report consists of two volumes: Volume I - Technical Report and Volume II - Data Base, Part 1 and Part 2. The period of performance was from 20 May 1974 thru 19 May 1975.

Mr. Donald J. Tillian was the NASA Technical Monitor for this study; Messrs. H. E. Christensen and H. W. Kipp were the MDAC Principal Investigator and Study Manager, respectively. Significant contributions to this study were made by A. E. Brums, M. B. Donovan, L. H. Ebbesmeyer, E. A. Eiswirth and T. W. Parkinson. The cooperation of numerous NASA Personnel at Ames Research Center, Johnson Space Center and Langley Research Center in providing experimental data, supplemental calculations and valuable counsel was instrumental to the successful completion of this study. We are appreciative of the cooperation from the following for supplying test data; C. D. Scott and L. P. Murray of JSC, W. K. Lockman and F. J. Centolanzi of Ames, D. A. Throckmorton and I. Weinstein of LaRC, and G. W. Mauss and C. B. Blumer Rockwell International.

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1.0 INTRODUCTION AND SUMMARY

The reusable surface insulation (RSI) thermal protection system (TPS) for Space Shuttle requires gaps at RSI joints to accomodate structural deflection resulting from loads and thermal expansion. In addition, allowance must be made for manufacturing and assembly tolerances. Gap widths under current consideration will nominally be 0.254 cm (0.10").

The successful application of RSI material for Shuttle thermal protection is significantly affected by entry heating within the RSI gaps. Gap width, depth, crossection geometry, gap orientation, boundary layer state and surface mismatch are all known to affect convective heating within the gap and heat leakage to the protected substructure. For instance, present study results indicate a flush transverse butt gap 0.254 cm wide with an edge radius of 0.152 cm, increases TPS thickness requirements by approximately 1/3 above the thickness required for a continuous layer of RSI.

During 1972, 1973 and 1974, extensive tests of various gap configurations were run by NASA to provide a data base for accurate assessment of gap heating. Data were taken in both wind tunnels and in arc tunnels. The early test data is contained in Reference 1. In the present study, a large segment of the available data was analyzed and correlated to obtain methods for predicting heating in the RSI gaps on Shuttle. The following major tasks were performed during the study:

- o Assimilation of gap heating data from NASA facilities
- o Analysis of the data to determine heating rates and sensitivities
- o Correlation of the assimilated data and the development of a gap heating procedure which was applied to a current Shuttle baseline entry trajectory.

This volume of the final report contains the gap heating data which were assimilated during the current study. The data sources and test conditions are summarized in Figure 1.0-1.

The data contained in subsequent sections includes a description of each test facility, run schedule and test conditions, model descriptive information, and heat flux data.

GAP HEATING DATA SOURCES

INVESTIGATORS	TEST FACILITY AND CONDITIONS	DATA DESCRIPTION
D. A. THROCKMORTON H. E. CHRISTENSEN (1973)	LaRC MACH 10 CFHT MODEL TESTED IN TUNNEL WALL Re m^{-1} = 3.3 X 10^6	TURBULENT B.L.; 153 RUNS; THIN SKIN MODEL; BUTT JOINTS WITH INLINE AND STAGGERED GAPS; FLOW ORIENTATION, TILE HEIGHT MISMATCH AND GAP WIDTH VARIED.
W. K. LOCKMAN C. P. BLUMER (1973)	AMES 3.5 FOOT HWT FREE STREAM MODEL 5.0 < M < 5.2 1X10^6 < Re m^{-1} < 4.6X10^6	LAMINAR, TRANSITIONAL AND TURBULENT B.L.; 71 RUNS; FLAT PLATE THIN SKIN MODEL; INLINE, TRANSVERSE AND SWEPT BUTT JOINTS.
D. A. THROCKMORTON (1973) SUPPLEMENTAL RUNS	LaRC MACH 10 CFHT MODEL TESTED IN TUNNEL WALL Re m^{-1} = 3.3 X 10^6 AND 7.4 X 10^6	TURBULENT B.L.; 10 RUNS; THIN SKIN MODEL; FILLED, IN-LINE AND STAGGERED GAPS
W. K. LOCKMAN C. B. BLUMER (1973)	AMES 3.5 FOOT HWT FREE STREAM 1.6 X 10^6 < Re m^{-1} < 6.6 X 10^6	LAMINAR, TRANSITIONAL AND TURBULENT B.L.; 93 RUNS; THIN SKIN MODEL; LONG IN-LINE GAP; GAP ORIENTATION WITH THE FLOW TO AN ANGLE OF 15 DEGREES
I. WEINSTIEN (1974)	LaRC 8 FOOT HIGH TEMPERATURE STRUCTURE TUNNEL Re m^{-1} = 1.9 X 10^6 AND 4.8 X 10^6	TURBULENT B.L.; 22 RUNS; THIN SKIN MODEL; IN-LINE AND STAGGERED
C. D. SCOTT (1974)	JSC 10 MW ARC TUNNEL WEDGE (15°) M = 9.6 Re m^{-1} = 1741.	LAMINAR B.L.; 12 RUNS (MODEL INSERTED 3 TIMES INTO THE FLOW DURING EACH RUN); THIN SKIN TILES WITH ROUNDED EDGES; IN-LINE BUTT CONFIG.; TRNASVERSE AND IN-LINE GAPS

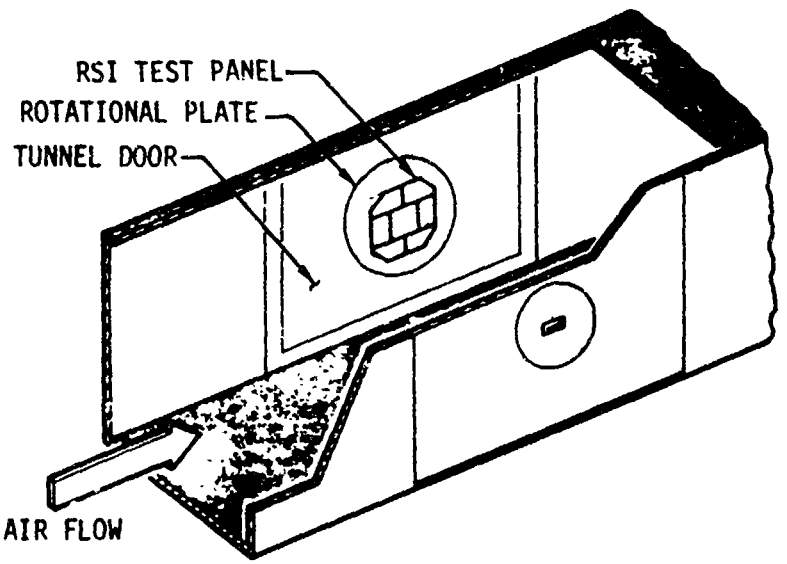
FIGURE 1.0-1

2.0 NASA/LaRC, CFHT TESTS (EXPANDED LISTING)

An HCF tile array was tested in Langley's Continuous Flow Hypersonic Tunnel (CFHT) at a freestream Mach number of 10.3 and a freestream unit Reynolds number of 3.28×10^6/meter. The purpose of the test program was to study the heating on the face of a tile submerged in a thick turbulent boundary layer as a function of gap width, tile mismatch and flow orientation. These tests were performed on the side wall of the tunnel (Figure 2.0-1) which has a boundary layer thickness of 5.08 to 10.16 centimeters. The tile array was rotated through $\pm 45°$ to study the flow orientation effect on gap heating. Figure 2.0-2 is a view of the CFHT. Heating measurements were made by inserting the panel into the test position and recording thermocouple responses.

A MDC engineer supervised the tests on site at LaRC. Mr. D. A. Throckmorton was the NASA engineer responsible for conducting the tests. Mr. D. A. Throckmorton and his staff were very cooperative which is very much appreciated. Test description and graphical presentation of the test data as prepared by LaRC is contained in Reference 2.

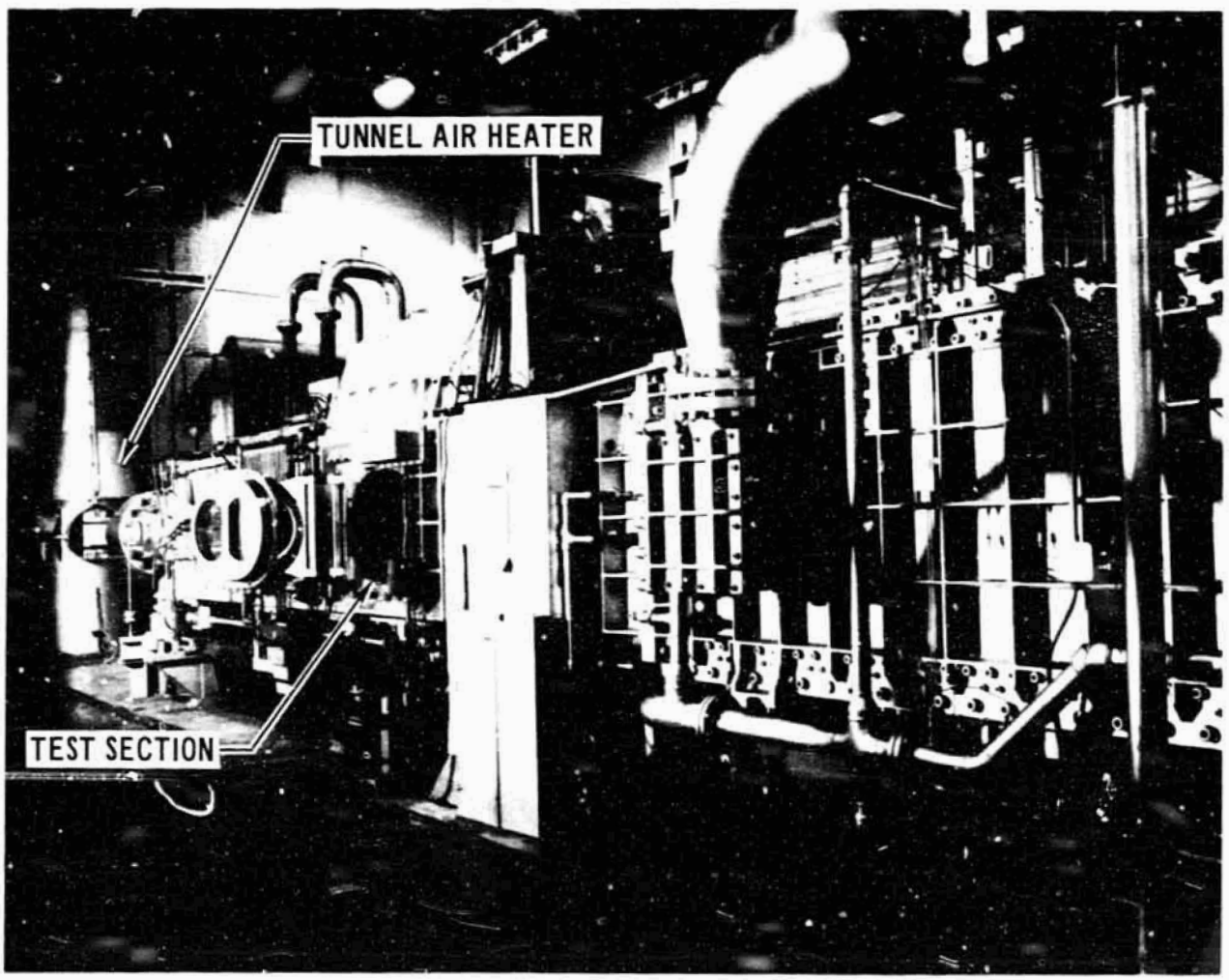
RSI-TPS WIND TUNNEL CONFIGURATION (CFHT AT LaRC)



- o ADJUSTABLE GAP
- o SHIMS FOR STUDYING MISMATCH
- o 0 TO $\pm 90^o$ ORIENTATION

Figure 2.0-1

CONTINUOUS FLOW HYPERSONIC TUNNEL (CFHT)
NASA-LaRC
(MACH 10)



FLOW IS FROM LEFT TO RIGHT

Figure 2.0-2

TEST CONDITIONS AND VARIABLES MATRIX

Tests were conducted in the tunnel wall boundary layer of the Langley Continuous Flow Hypersonic Tunnel with freestream flow conditions of Mach number, M_∞ = 10.3, and unit Reynolds number, R_N = 3.28 x 10^6/meter. At these conditions, the tunnel wall boundary layer is fully turbulent with a displacement thickness, δ^*, of approximately 12.06 centimeters. Varied test parameters were: tile orientation (staggered/in-line), gap width, flow angularity, and tile mismatch. An outline of the full test matrix is presented below:

GAP WIDTH (cm)	TILE ARRAY ORIENTATION	TILE MISMATCH (cm)	FLOW ANGULARITY (degs.)
0.127	Staggered	0, +.254	0, 7.5, 15, 30, 45
	In-line	0, +.254	0, 7.5, 15, 30
0.229	Staggered	0, -.168	0, 7.5, 15, 30, 45
	In-line	0, -.168	0, 7.5, 15, 30
0.457	Staggered	0, +.254	0, 7.5, 15, 30, 45
	In-line	0, +.254	0, 7.5, 15, 30
0.711	Staggered	0, +.254	0, 7.5, 15, 30, 45
	In-line	0, +.254	0, 7.5, 15, 30

A complete Run Schedule is presented as Figure 2.0-3

CFHT TEST 92 RUN SCHEDULE

RUN	GAP (cm)	MISMATCH (cm)	TILE ORIENTATION	ALPHA (DEG)	T-C LOCATION	REMARKS
1	0.127	0	Staggered	0	Top	No Data!
2				0		
3				-7.5		
4				-15		
5				-30		
6				-45	Top	
7				-7.5	Bottom	
8				-15		
9				-30		
10			Staggered	-45	Bottom	
11			In-Line	0	Forward	
12				-7.5		
13	0.127	0	In-Line	-15	Forward	
14	0.229	0	Staggered	0	Top	
15				-7.5		
16				-15		
17				-30		
18				-45	Top	
19				-7.5	Bottom	
20				-15		
21				-30		
22			Staggered	-45	Bottom	
23			In-Line	0	Forward	
24				-7.5		
25				-15		
26				-30	Forward	
27				0	Aft	
28				-7.5		
29				-15		
30	0.229	0	In-Line	-30	Aft	
31	0.457	0	Staggered	0	Top	
32				-7.5		
33				-15		
34				-30		
35				-45	Top	
36				-7.5	Bottom	
37				-15		
38				-30		
39			Staggered	-45	Bottom	
40			In-Line	0	Forward	
41				-7.5		
42				-15		
43				-30	Forward	
44				0	Aft	
45				-7.5		
46				-15		
47	0.457	0	In-Line	-30	Aft	

FIGURE 2.0-3

FIGURE 2.0-3 (CONTINUED)

RUN	GAP (cm)	MISMATCH (cm)	TILE ORIENTATION	ALPHA (DEG)	T-C LOCATION	REMARKS
48	0.457	0.254	Staggered	0	Top	
49				-7.5		
50				-15		
51				-30		
52				-45	Top	
53				0	Bottom	
54				-7.5		
55				-15		
56				-30		
57			Staggered	-45	Bottom	
58			In-Line	0	Forward	
59				-7.5		
60				-15		
61				-30	Forward	
62				0	Aft	
63				-7.5		
64				-15		
65	0.457	0.254	In-Line	-30	Aft	
66	0.127	0.254	Staggered	0	Top	
67				-7.5		
68				-15		
69				-30		
70				-45	Top	
71				0	Bottom	
72				-7.5		
73				-15		
74				-30		
75			Staggered	-45	Bottom	
76			In-Line	0	Forward	
77				-7.5		
78				-15		
79				-30	Forward	
80				0	Aft	
81				-7.5		
82				-15		
83	0.127	0.254	In-Line	-30	Aft	
84	0.127	0	In-Line	-15	Forward	
85				-30	Forward	
86				0	Aft	
87				-7.5		
88				-15		
39	0.127	0	In-Line	-30	Aft	
90	0.229	0.254	Staggered	0	Top	
91				-7.5		
92				-15		
93				-30		
94	0.229	0.254	Staggered	-45	Top	

FIGURE 2.0-3

FIGURE 2.0-3 (CONTINUED)

RUN	GAP (cm)	MISMATCH (cm)	TILE ORIENTATION	ALPHA (DEG)	T-C LOCATION	REMARKS
95	0.229	0.254	Staggered	0	Bottom	
96				-7.5		
97				-15		
98				-30		
99			Staggered	-45	Bottom	
100			In-Line	0	Forward	
101				-7.5		
102				-15		
103				-30	Forward	
104				0	Aft	
105				-7.5		
106				-15		
107	0.229	0.254	In-Line	-30	Aft	
108	0.229	-0.168	Staggered	0	Top	
109				-15		
110				-30		
111				-45	Top	
112				0	Bottom	
113				-15		
114				-30		
115			Staggered	-45	Bottom	
116			In-Line	0	Forward	
117				-15		
118				-30	Forward	
119	0.229	-0.168	In-Line	0	Aft	
120	0.711	0	Staggered	0	Top	
121				-7.5		
122				-15		
123				-30		
124				-45	Top	
125				0	Bottom	
126				-7.5		
127				-15		
128				-30		
129			Staggered	-45	Bottom	
130			In-Line	0	Forward	
131				-7.5		
132				-15		
133				-30	Forward	
134				0	Aft	
135				-7.5		
136				-15		
137	0.711	0	In-Line	-30	Aft	
138	0.711	0.254	Staggered	0	Top	
139				-7.5		
140	0.711	0.254	Staggered	-15	Top	No Data!

FIGURE 2.0-3

FIGURE 2.0-3 (CONTINUED)

RUN	GAP (cm)	MISMATCH (cm)	TILE ORIENTATION	ALPHA (DEG)	T-C LOCATION	REMARKS
141	0.711	0.254	Staggered	-15	Top	
142	↓	↓	↓	-30	↓	
143	↓	↓	↓	-45	Top	
144	↓	↓	↓	0	Bottom	
145	↓	↓	↓	-7.5	↓	
146	↓	↓	↓	-15	↓	
147	↓	↓	↓	-30	↓	
148	↓	↓	Staggered	-45	Bottom	
149	↓	↓	In-Line	0	Forward	
150	↓	↓	↓	-7.5	↓	
151	↓	↓	↓	-15	↓	
152	↓	↓	↓	-30	↓	No Data!
153	↓	↓	↓	-30	Forward	
154	↓	↓	↓	0	Aft	
155	↓	↓	↓	-7.5	↓	
156	↓	↓	↓	-15	↓	
157	0.711	0.254	In-Line	-30	Aft	

2.1 MODEL DESCRIPTION

The tile-array model utilized in these tests is illustrated schematically in Figure 2.1-1. The model consisted of a single 15.24 by 15.24 centimeter thin skin tile surrounded by six HCF tiles as shown. This array was set in an adapter (Figure 2.1-2) to the facility model injection mechanism in order to provide testing flush to the tunnel side wall. A photograph of the model installed on the injection mechansim is shown in Figure 2.1-3. Photographs of the model positioned flush with the tunnel side wall, both in-line and staggered orientations, are shown in Figures 2.1-4 and 2.1-5 respectively.

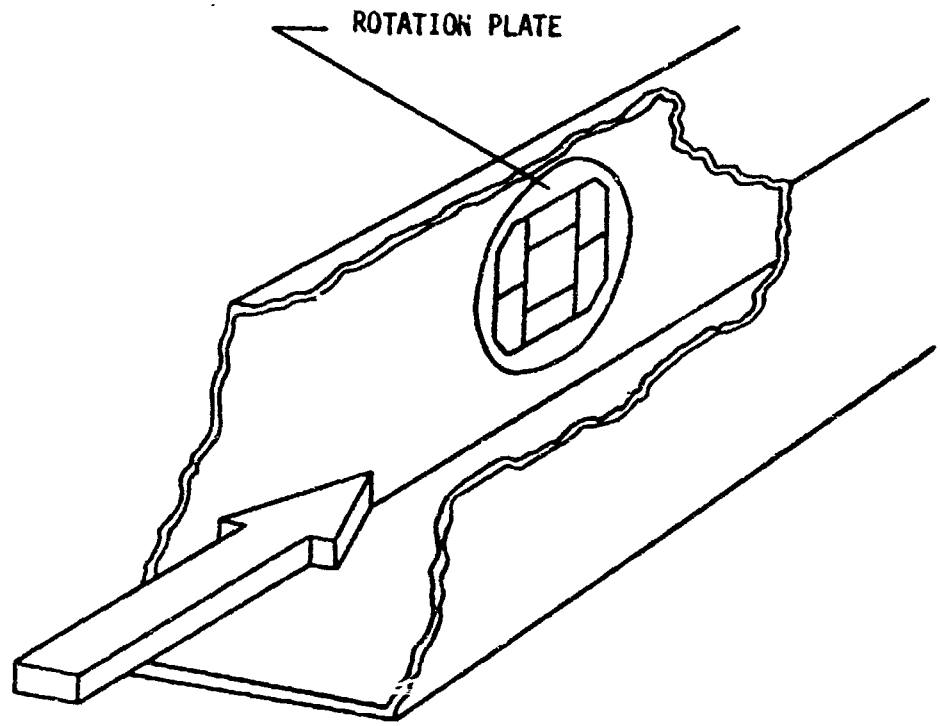
The tile array was constructed such that gap width between tiles was variable (0.127, 0.229, 0.457, 0.711 centimeter). Metal shims (Figure 2.1-2) were used to align all tiles flush with the tunnel wall, as well as to provide mismatch of the instrumented thin skin tile relative to the surrounding tiles. For all test runs, the gaps between the adapter walls and the HCF tile side walls were elimi ated by filling with a high temperature rubber sealant.

The HCF tiles were made from MOD IIIA HCF material bonded to 0.127 centimeter thick stainless steel plates with DC-3145 adhesive. All external surfaces of the tiles were coated with the MO-7 one step inorganic coating.

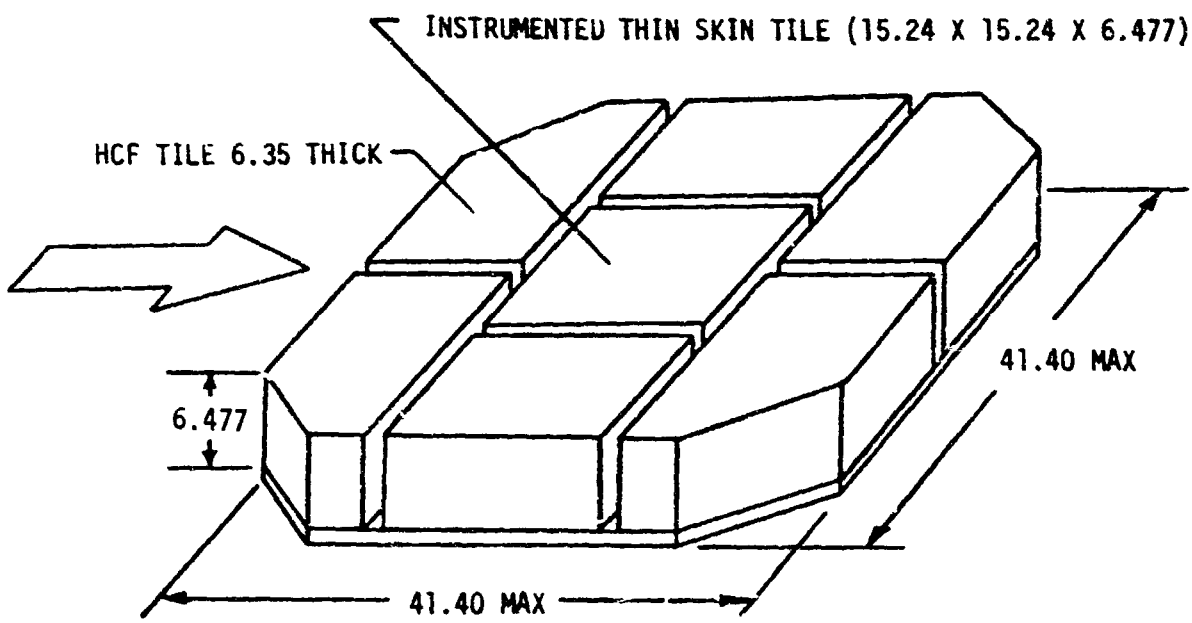
The thin skin tile was fabricated of stainless steel with a uniform thickness of 0.0254 centimeter at LaRC. The tile was instrumented with 81, 30-gage chromel-alumel thermocouples nominally located as indicated in Figure 2.1-6 Orientation of the instrumented portion of the thin skin tile relative to the surrounding HCF tiles is illustrated in Figure 2.1-7 The entire tile array could be rotated a full 360° to allow measurement of the heat transfer to all tile surfaces for the full range of possible flow angularities.

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Calibration Data - LaRC performed calibration runs to measure heat transfer data on a model mounted on the tunnel sidewall. The heat transfer was measured on a smooth flat plate under the same nominal flow conditions as the tile array. A photograph of the flat plate model is shown on Figure 2.1-8. Figure 2.1-9 is the measured heat transfer distribution in the vertical direction on the flat plate mounted in the tunnel sidewall. The distribution shown is based upon three data runs at $M_\infty = 10.33$ and $Re_\infty/m = 3.28 \times 10^6$. A significant variation in the heating across the flat plate is observed. This tunnel characteristic has been attributed to the square nozzle and test section which results in a slight flow convergence toward the center of the tunnel sidewall. Data taken on a corrugated panel on the tunnel sidewall exhibited a similar spanwise heating gradient to that observed on the flat plate. Normalizing the corrugated panel heat transfer coefficients by the flat plate coefficients resulted in successful collapsing of the data in the spanwise direction. Because of previous experience in correlating the corrugated panel data, the gap heating data, taken at the same test condition, was normalized by the measured flat plate heat transfer coefficients. Measured heating in the streamwise direction showed a slight decrease with distance as would be expected for a thick turbulent boundary layer.



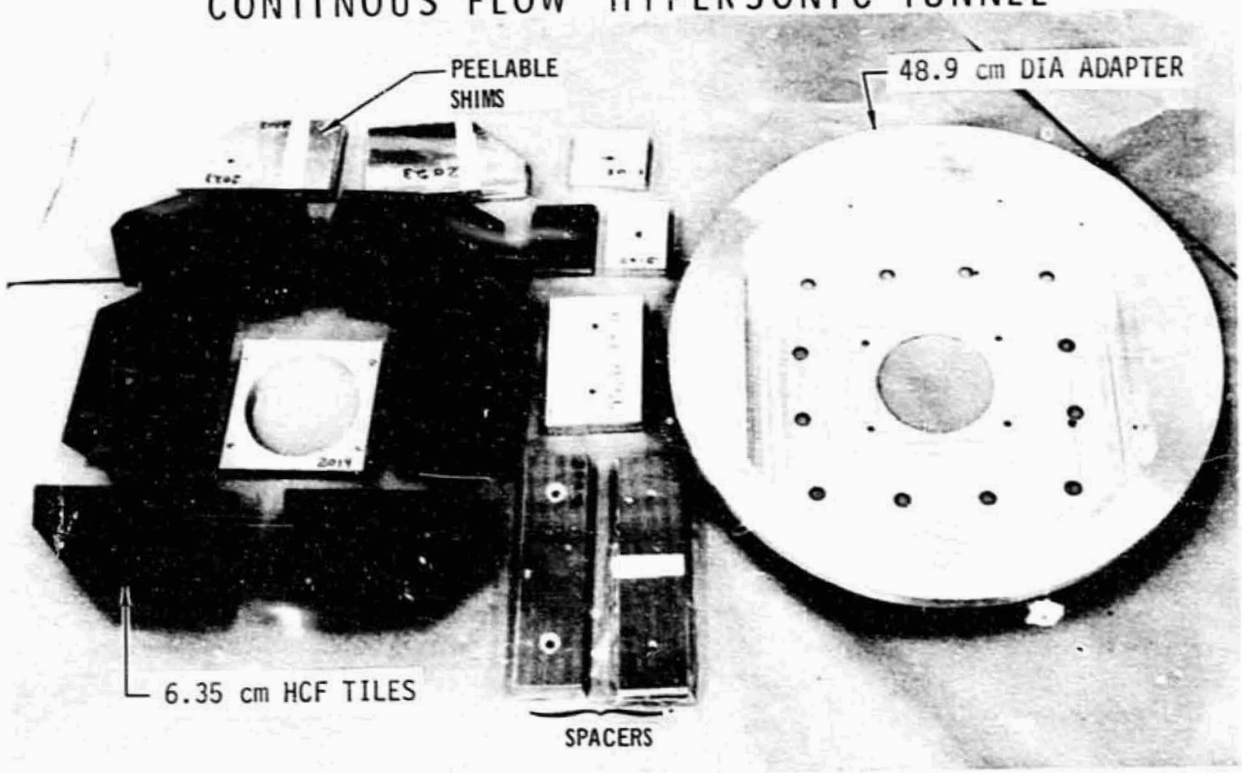
ALL DIMENSIONS IN CENTIMETERS



TILE ARRAY MODEL SCHEMATIC

Figure 2.1-1

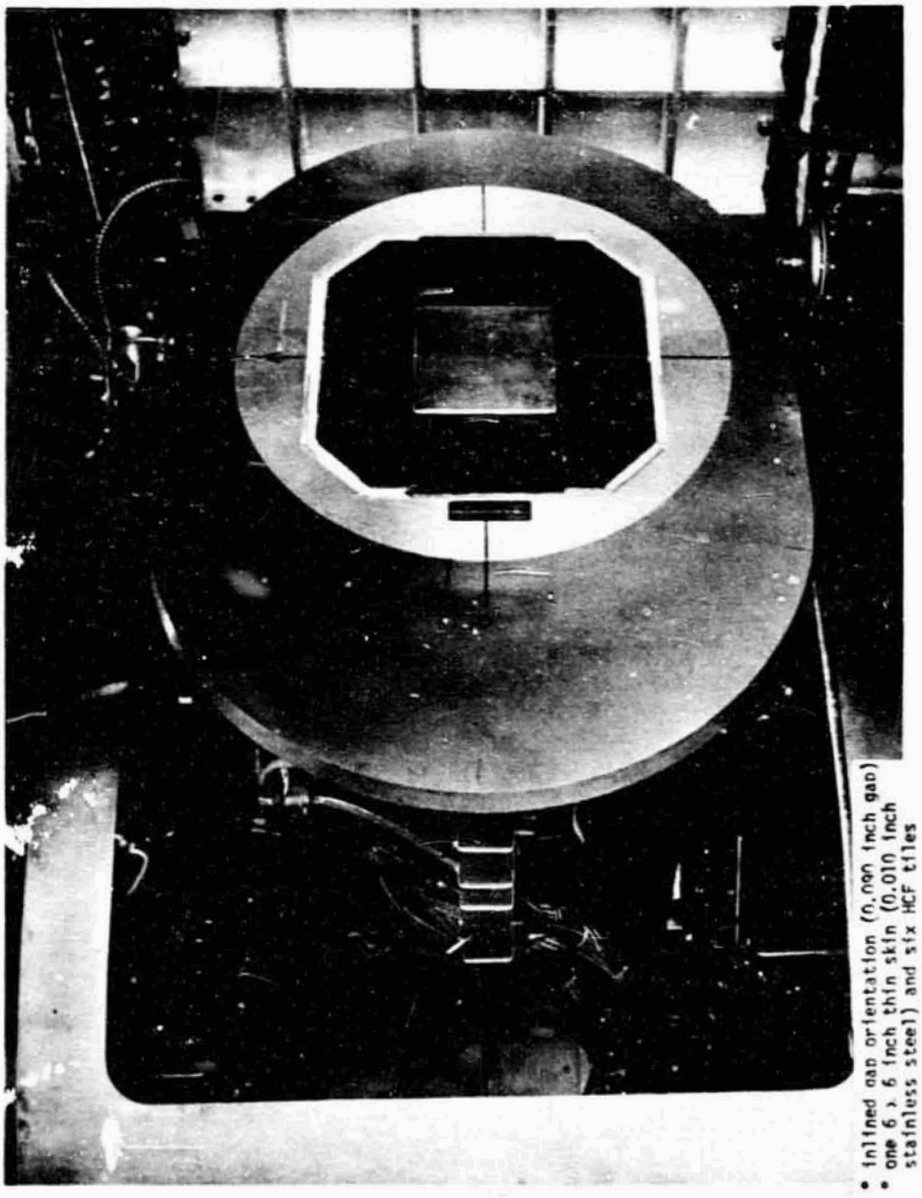
COMPONENTS FOR RSI-TPS TEST IN MACH 10
CONTINOUS FLOW HYPERSONIC TUNNEL



457-3776

Figure 2.1-2

RSI PANEL, ADAPTER RING, DOOR AND INJECTION MECHANISM DURING GAP HEATING TEST AT LANGLEY CFHT



- Inlined gap orientation (0.090 inch gap)
- One 6 x 6 inch thin skin (0.010 inch stainless steel) and six HCF tiles

FIGURE 2.1-3

RSI PANEL (INLINED GAP ORIENTATION, 0.23 CM GAP) INSTALLED IN THE WALL OF THE LANGLEY CFHT

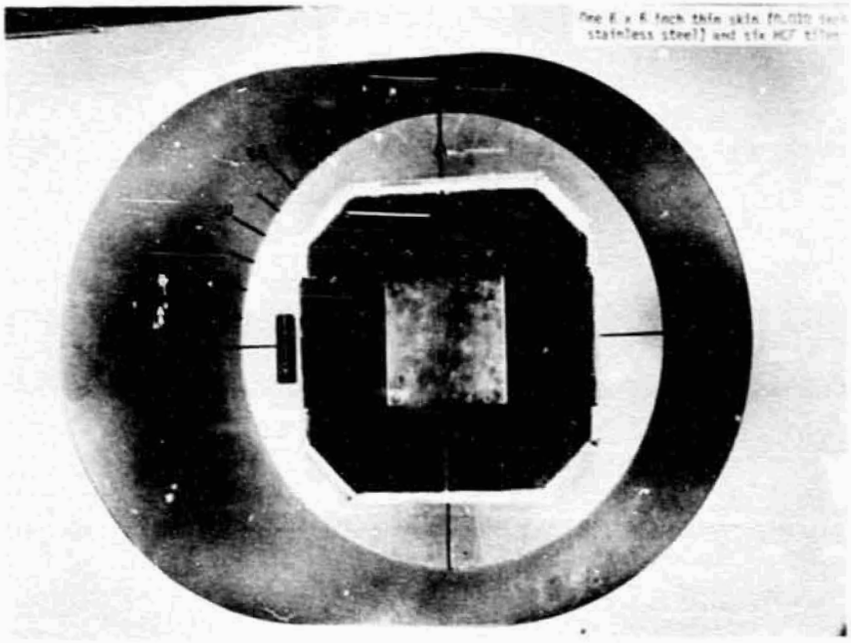


FIGURE 2.1-4

RSI PANEL (STAGGERED GAP ORIENTATION, 0.23 CM GAP) INSTALLED IN THE WALL OF THE LANGLEY CFHT

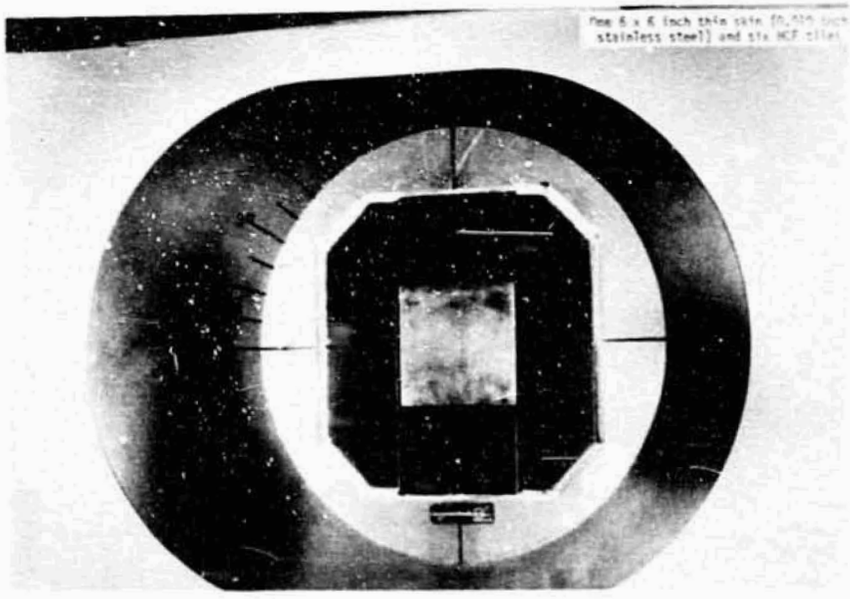
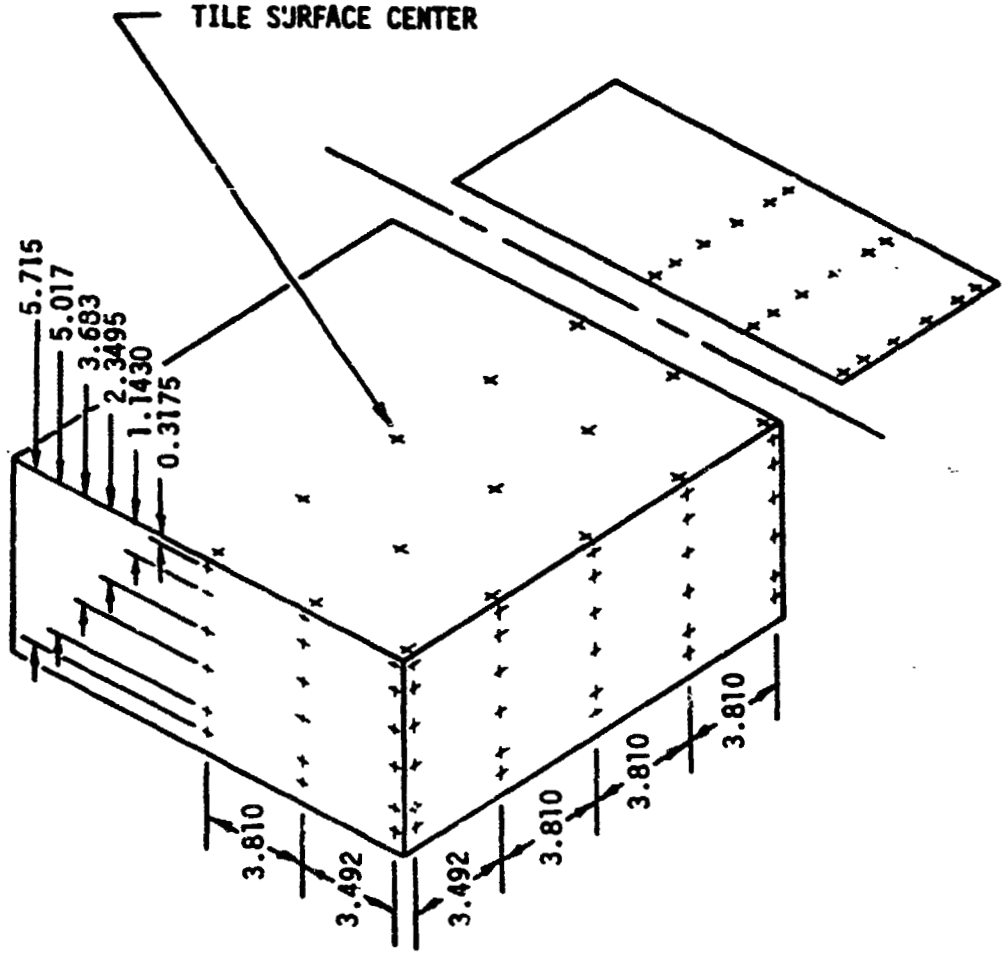


FIGURE 2.1-5

NOMINAL THERMOCOUPLE LOCATIONS FOR 15.24x15.24 CM THIN SKIN TILE USED IN CFHT

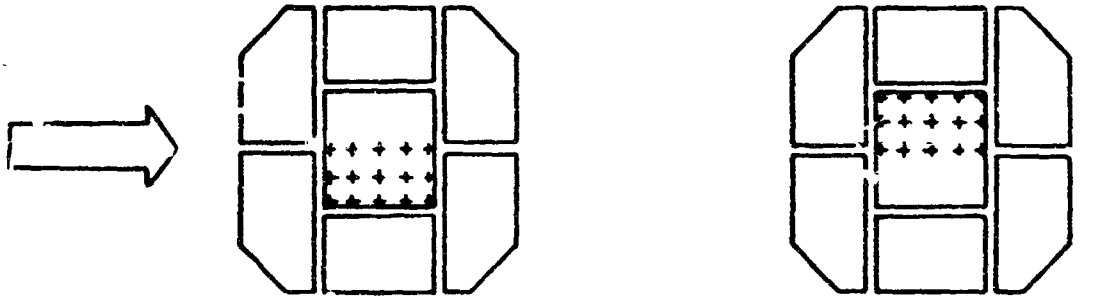


ALL DIMENSIONS IN CENTIMETERS

Figure 2.1-6

RELATIVE LOCATION OF INSTRUMENTED PORTION OF THIN SKIN

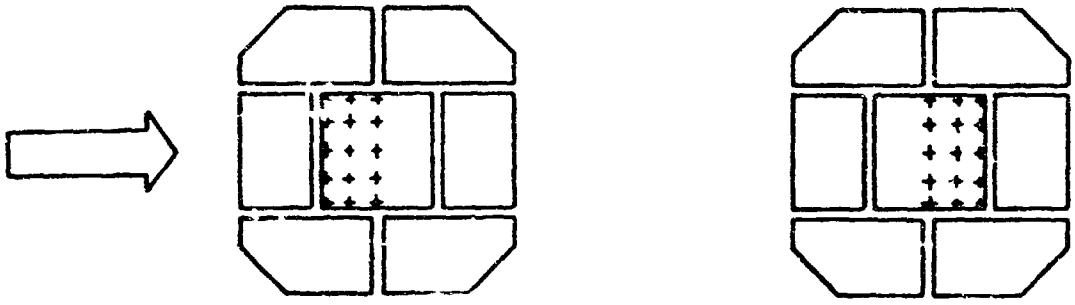
- STAGGERED TILE ORIENTATION



Thermocouple location "Bottom"

Thermocouple location "Top"

- IN-LINE TILE ORIENTATION



Thermocouple location "Forward"

Thermocouple location "Aft"

Figure 2.1-7

FLAT HEAT TRANSFER PLATE
AND PITOT PRESSURE RAKE ON WALL OF CFHT

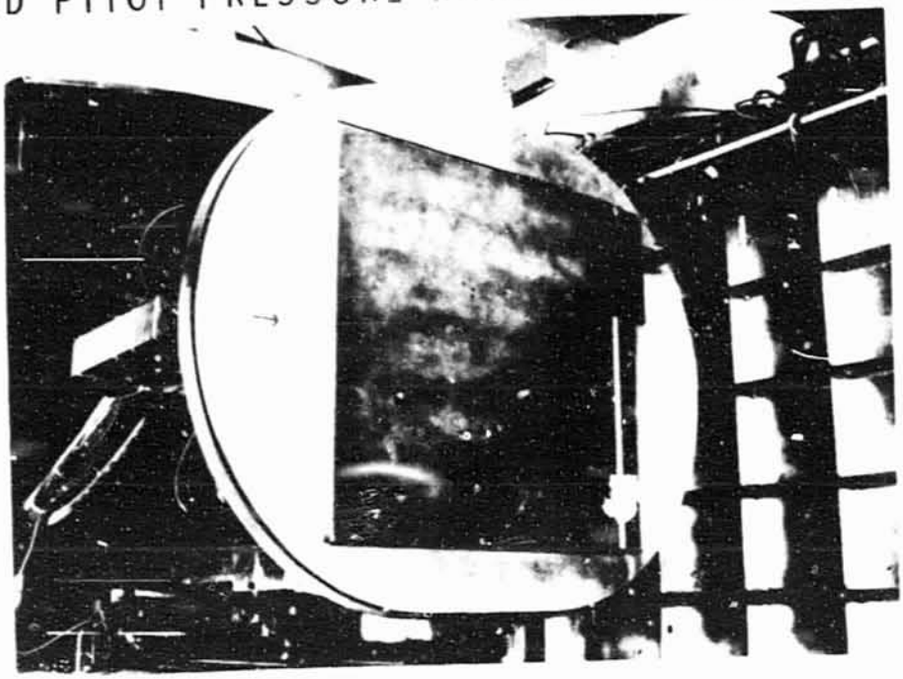
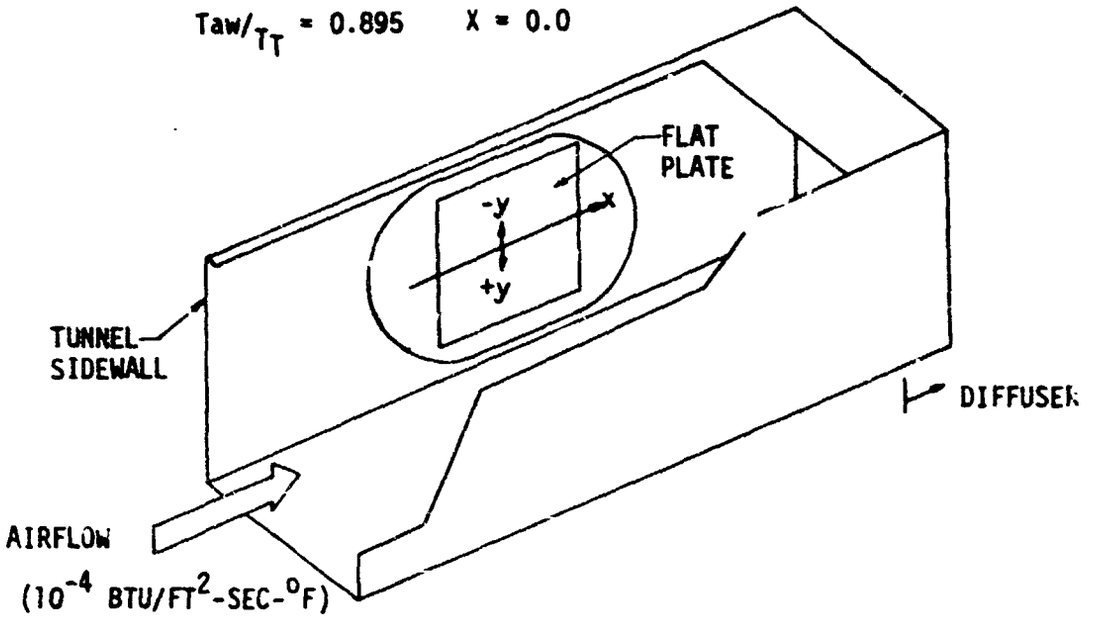


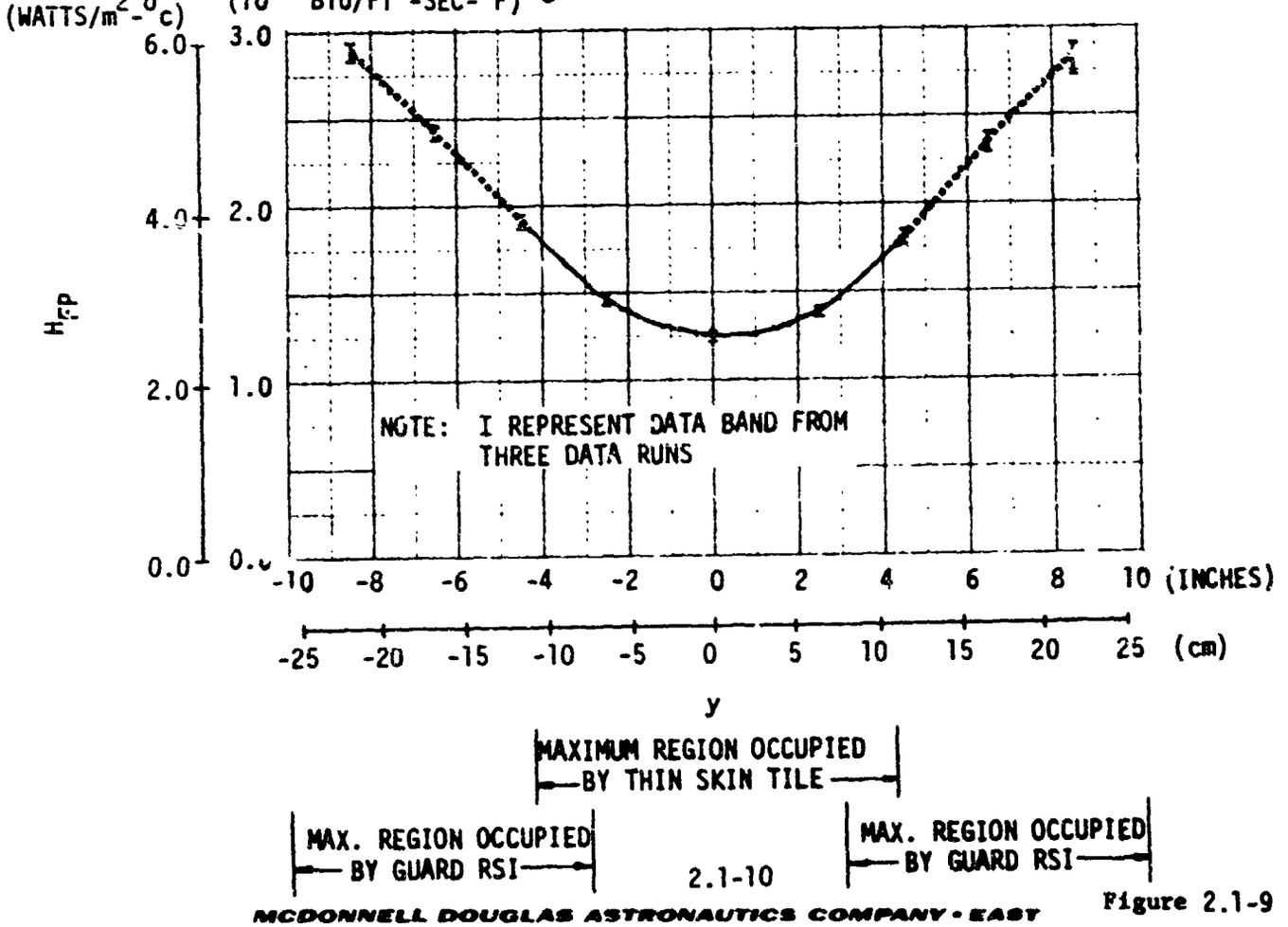
FIGURE 2.1-8

HEAT TRANSFER DISTRIBUTION [$H_{FP} = F_1(Y)$] ON FLAT PLATE MOUNTED ON CFHT SIDEWALL

$M_\infty = 10.33$ $Re_\infty/m = 3.28 \times 10^6$ TEST NO. 93

$Taw/T_T = 0.895$ X = 0.0





MAXIMUM REGION OCCUPIED BY THIN SKIN TILE

MAX. REGION OCCUPIED BY GUARD RSI

MAX. REGION OCCUPIED BY GUARD RSI

Figure 2.1-9

2.2 Explanation of Terminology Used in Data Listing - Results from the CFHT tests presented in Section 2.3 are organized by run number and contain information about test conditions, model configuration and thermocouple location, heat transfer parameters and boundary layer parameters. The data listing was prepared by analyzing and combining information recorded during calibration and test runs with boundary layer information. As described in earlier sections, tile heating information was obtained by repositioning the instrumented tile within the field of tiles. Two basic tile orientations (or configurations) were used: in-line and staggered. The entire panel was rotated from these configurations to obtain intermediate flow orientations to generate data for flow angles (GAMMA) ranging from 0 to 90 degrees. It should be noted that the coordinates "XSURF" and "XB" are based on either the in-line or staggered tile configuration whereas "XC" and "YC" are for a "fixed tile" and the flow rotates. The fixed tile coordinate system is described in Figure 2.2-1.

The terminology used in the data listing is as follows:

MACH = Mach Number

RE/METER = Unit Reynolds Number

HO = Reference heat transfer coefficients, constant for a test run

TW = Wall temperature

TT = Freestream total temperature

PT = Freestream total pressure

T1 = Freestream static temperature

P1 = Freestream static pressure

(RHO V)1 = Freestream density - velocity product

GAP = GAP WIDTH (W)

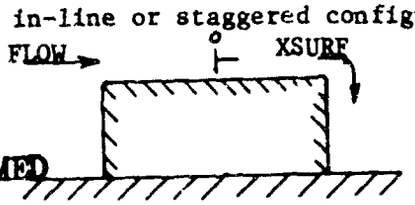
STEP = Step height (>0, protruding tile)
(=0, flush tile)
(<0, recessed tile)

CONF = Tile pattern; STAG → staggered tiles (Figure 2.1-5)
IN-LINE → in-line tiles (Figure 2.1-4)

TAW = Adiabatic wall temperature

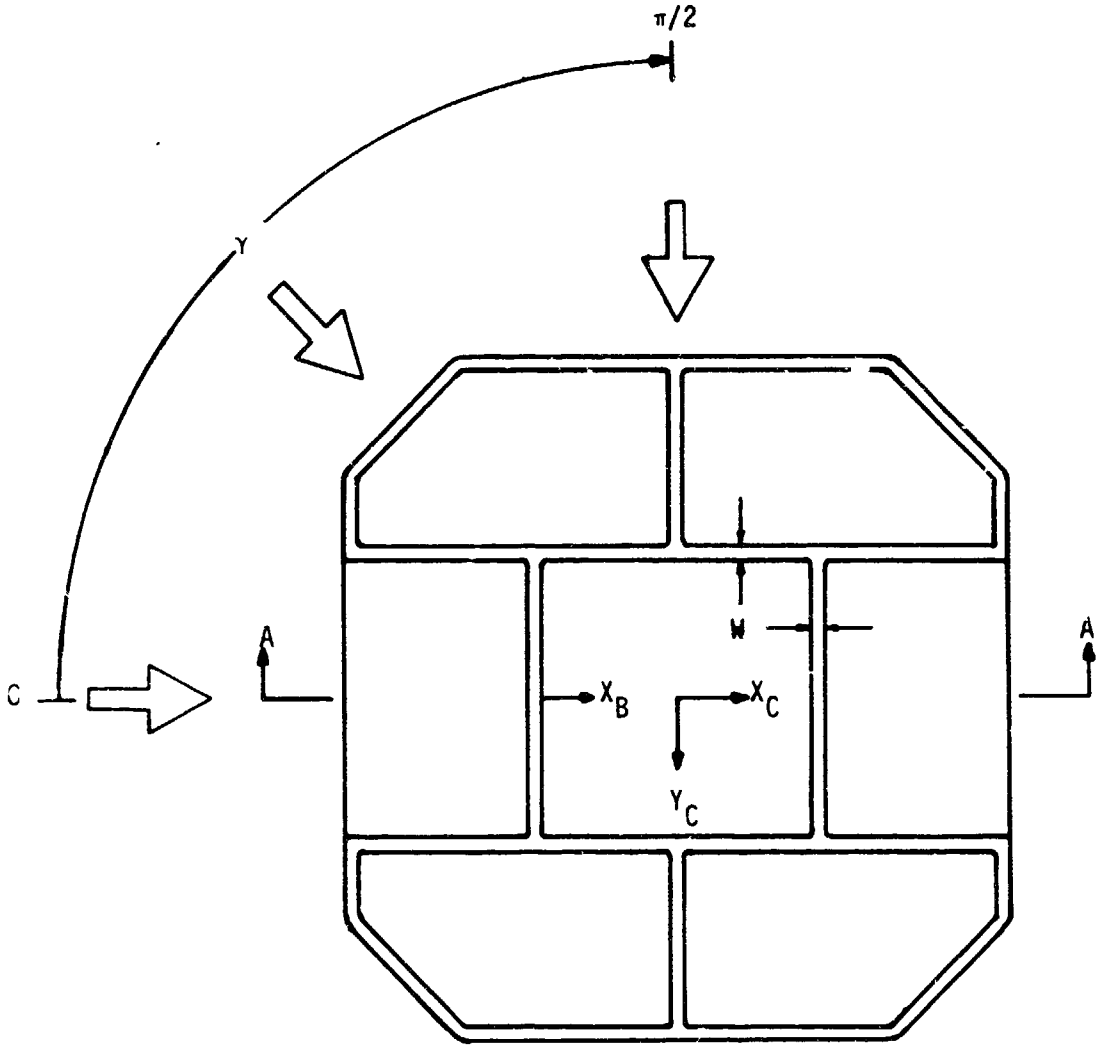
CH = Channel number

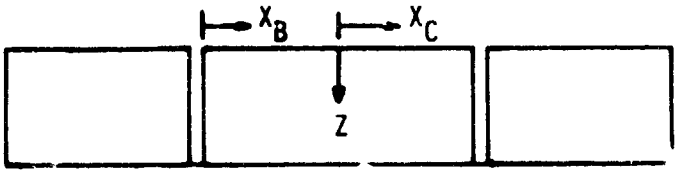
XSURF = Surface distance on the instrumented tile and is recorded based on in-line or staggered configuration,



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CFHT 'TILE FIXED' COORDINATE SYSTEM





VIEW A - A

FIGURE 2.2-1

XB = Distance from leading edge of tile, (X_B)

XC = x-coordinate of instrumentation point, origin at center of tile, (X_c)

YC = y-coordinate of instrumentation point, origin at center of tile, (Y_c)

Z = Distance from top of tile (XC, YX, Z form right hand coordinate system)

Y-NOR = Vertical distance from tunnel centerline instrumentation locations, used for interpolating calibr plate heatin curve

HT = Convective heat transfer coefficient based on a T_{aw}/T_t = 0.895

HT/HO = Heat transfer coefficient ratio

HT/HF = Convective heat transfer ratioed to calibration plate heating

NSTT = Stanton number based on freestream conditions and HT

DELS = Displacement thickness based on starred condition

M-THK = Momentum thickness

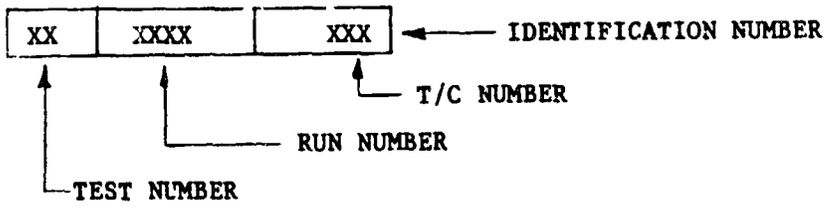
SUB-L = Laminar sublayer thickness

HT/HE = Convective heat transfer coefficient in gap ratioed to coefficient measured on top of tile at edge of the gap

hTC/HF = Convective heat transfer coefficient in gap (conduction and specific heat corrected) ratioed to flat plate

HTC/HEC = Convective heat transfer coefficient (conduction and specific heat corrected) in gap ratioed to edge value on top of tile

Information for thermocouples with abnormal data is omitted from data listing. Also contained in Section 2.3 is a listing which employs the "24 Attribute Word List". Data are arranged by run number, gap, step and flow orientation. Terminology used for pages 2.3-339 to 2.3- 368 is as follows:



G-CF = GAP CONFIGURATION

LOC = INSTRUMENTATION LOCATION

X	=	DISTANCE DOWNSTREAM FROM LEADING EDGE OF CARRIER PLATE
Y	=	LATERAL DISTANCE FROM MODEL CENTERLINE
Z	=	DISTANCE FROM TOP OF TILE (X, Y, Z, FORM RIGHT HAND COORDINATE SYSTEM)
X(P,M)	=	DISTANCE FROM LEADING EDGE OF TILE
HTC/HTEC	=	CONVECTIVE HEAT TRANSFER COEFFICIENT (CONDUCTION AND SPECIFIC HEAT CORRECTED) IN GAP RATIOED TO EDGE VALUE ON TILE TOP
G(RAD)	=	FLOW ORIENTATION - RADIANS
GAP	=	GAP WIDTH
STEP	=	STEP HEIGHT
FLOW-L	=	GAP FLOW LENGTH
GAP-D	=	GAP DEPTH
PATN	=	TILE PATTERN (0 = STAGGERED, 1 = IN-LINE)
MACH	=	MACH NUMBER
RE/METER	=	UNIT REYNOLDS NUMBER PER METER
M-THK	=	MOMENTUM THICKNESS
DELS	=	DISPLACEMENT THICKNESS
SUB-T	=	SUB-LAYER THICKNESS
H	=	HEAT TRANSFER COEFFICIENT BASED ON $Taw/T_t = 0.895$
HTC/HREF	=	CONVECTIVE HEAT TRANSFER COEFFICIENT IN GAP (CONDUCTION AND SPECIFIC HEAT CORRECTED) RATIOED TO COEFFICIENT ON CALIBRATION PLATE AT THE SAME LOCATION
NSTT	=	STANTON NUMBER BASED ON FREE STREAM CONDITIONS AND HEAT TRANSFER COEFFICIENT
TW/TE	=	TEMPERATURE RATIO ACROSS BOUNDARY LAYER
B.L.	=	BOUNDARY LAYER STATE (1 = LAMINAR, 2 = TRANSITIONAL, 3 = TURBULENT)
NTØL	=	DATA SEQUENCE NUMBER

Information for thermocouples with abnormal data is omitted from data listing.

2.3 Data Tabulation for LaRC CFHT Gap Heating Tests - This section contains the program for transcribing data from the CFHT into the Data Bank and the tabulation generated by the program. The program listing is included for completeness and also documents those steps necessary to process the data into the Data Bank. The data listing begins on Page 2.3-28.

This listing employs the "24 Attribute Word List" (described in Volume 1, Section 5) used in the data selection and data correlation programs.

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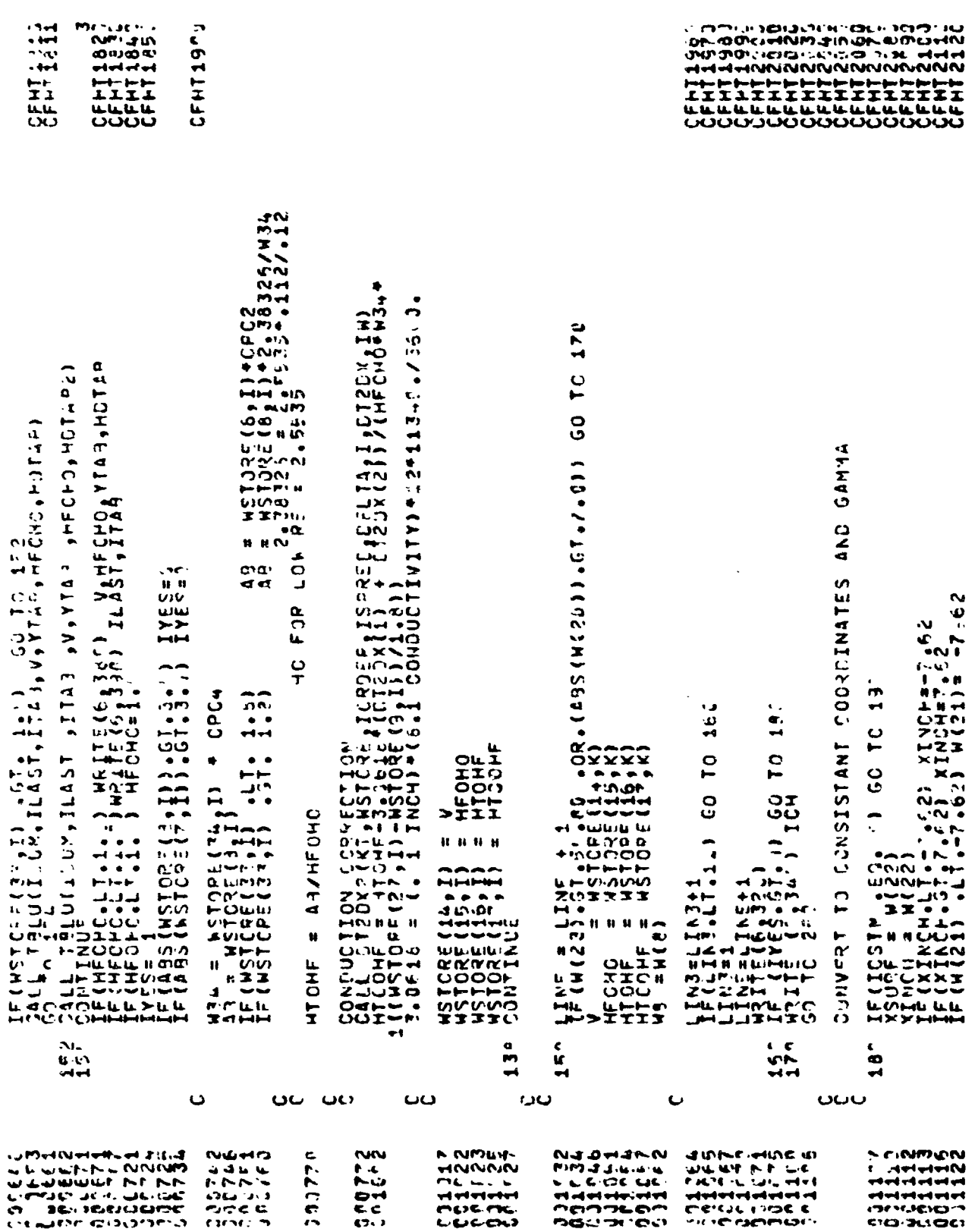
```
      PROGRAM RSILAB2 (INPUT=12,OUTPUT,TAPE1=INPUT,TAPE2=OUTPUT,
     1    TAPE21=21,TAPE22=22,TAPE23=23)
C     LISTING OF HEAT TRANSFER COEFF. TAPE FROM RSI GAP TESTS AT LARC
      DIMENSION H(34),YTA3(13),HOTA3(13),HOTA32(13),SUM(13)
      DIMENSION HX1(34),HX2(24),HXOR(24),HTOF(9)
      DIMENSION IRUNL(24),IRUNH(20)
      DIMENSION HOT2DX(2)
      EQUIVALENCE (W(1),NTEST),(W(2),NRUN),(W(4),ICH)
      EQUIVALENCE (HWORD,IWORD),(W1(2))
      EQUIVALENCE (HRUN,WRUN),(KEDGE
      DATA YTA3/-11.13,-7.02,-5.35,-5.16,-3.81,-2.54,-1.27,2.54,3.64,
     1   5.08,7.62,11.43/
      DATA HCTA3/1.245,1.112,1.165,1.123,1.248,1.020,1.023,
     1   1.022,1.021,1.019/
      DATA HCTA32/1.052,1.029,1.030,1.032,1.035,1.068,1.116,
     1   1.17,1.22,1.29/
      DATA NTCL/0/
      DATA KA/1/
      DATA IRUNL / 1, 14, 31, 43, 86, 93, 113, 120, 138,
     1    7, 19, 36, 53, 71, 95, 112, 125, 144, 161, 165/
      DATA IRUNH/ 6, 18, 35, 52, 70, 94, 111, 124, 143,
     1   10, 22, 39, 57, 75, 99, 115, 129, 146, 162, 166/
      DATA ITAPE =1, BINARY TAPE MADE
     1   ITAPE =1, NO BINARY TAPE MADE
      DATA ICORD=F,ISBRED,DELTA,IW/3,2,.07,3/
      ICONV = 1
      ICOSTM = 1, CONSISTANT COORDINATE SYSTEM, REFERENCED TO TILE
      ICOSTM = 0, COORDINATES AND ALPHA NOT CHANGED
      ITLAST =
      ITLALPEE =
      ITPAGE =
      IPAGE =
      LIIN2=
      LIIN3=
      HRUN =-1
      NSKIP=1
      NSKIP =
      JONES =
      GAMS = -999.
      SPECIFIC HEAT CORRECTION (AUG 74)
      THIN SKIN TIL=  (304 S.S) HAS CP=1.112  INSTEAD OF 1.12  (70F)
      FLAT PLATE      (321 S.S) HAS CP=1.145  INSTEAD OF 1.113 (70F)
C
C
C
C
```

```
      CPC1 = 1.12E-5E
      CPC2 = 1.91E-11E
      CPC3 = 0.
      CPC4 = 1.E-3
      IF(NTEST.EQ.1) WRITE(6,1) NRUN,IPAGE
      WRITE(6,2) NRUN,IPAGE
      DO 1 N=1,51
      X(N) = X(N-1) + (X3-X1)
      SUM = SUM + (X4-X3)
      DO 2 N=1,14
      SUM = SUM + (X4-X3)
      STORE(N) = SUM
    1 CONTINUE
    2 CONTINUE
C     ALL DATA FROM A RUN BEFORE PROCESSING
      KT = 0
      READ(5,3) W1
    3 FORMAT(5E)
      IF(ITAPE) 40,40,5
   40 CONTINUE
C     END OF DATA, PROCESS LAST RUN
      GO TO 70
C
    5 IF(KT.EQ.1) MMRUN = NNRUN
      IF(NNRUN.NE.MMRUN) GO TO 70
      KT = KT + 1
      DO 60 I=1,34
      W1(I) = STORE(I,KT)
   60 CONTINUE
      GO TO 7
C
   70 MRUN = -1
      KK = 0
      IM = IM +1
C
   80 IF(K.LT.KT) GO TO 90
      KT = 0
      GO TO 99
C
   90 KK = KK + 1
      IF(NRUN.GT.1) CALL EXIT
      DO 100 I=1,34
      W1(I) = STORE(I,KK)
  100 CONTINUE
C
      WC( 1) = W1( 1) *1.8
      WC(13) = W1(13) *1.8
      WC(12) = W1(12) *1.8
      WC(23) = W1(23) *1.8
      WC(22) = W1(22) *1.8
      WC(28) = W1(28) *1.8
```

```
      W(29) = W(29)/1.6
      W(30) = W(30)*6894.757
      W(32) = W(32)*4.882362
      W(33) = W(33)*3.28[illegible]
      IF(W(33).GT. [illegible]) W(34) =2.3833E-04
C                              2.3833E-04(BTU/FT2-S)= HO AT HIGH RE
      W(34) = W(34)*11348.93171.*CPC1
      IF(NRUN.NE.MRUN) LINE=60
      IF(LINE.LT.55) GO TO 1[illegible]
      LINE = 4
C
      WRITE(6,470) NPAGE
      NPAGE = NPAGE + 1
      IF(NRUN .NE. MRUN) NPAGE=2*NRUN -1
      IPAGE =IPAGE+1
      WRITE(6,310) NTEST,NRUN,IPAGE
C
C     COMMON BASE COORDINATE SYSTEM
      A    = 0.0
      B    = 1.0
      C    = 1.0
      D    = 1.0
      E    = 1.0
      GAMO=90.0
      DO 110 I=1,13
      IF( NRUN.GE.IRUNL(I) .AND. NRUN.LE. IRUNH(I)) GO TO 120
  110 CONTINUE
      A    = 1.0
      B    = 0.0
      C    = 0.0
      D    = 1.0
      E    =-1.0
      GAMO= 0.0
  120 CONTINUE
C     ICONF = 1   IN-LINE    CONFIGURATION
C     ICONF = 0   STAGGERED  CONFIGURATION
C     ICONF =-1   ZERO GAP
      IF(MRUN.EQ.NRUN) GO TO 140
      IPAG2=IPAGE
      GAP  = [illegible]
      STEP = 0.10
      ICONF= [illegible]
      IF(NRUN.GE.11) ICONF=1
      IF(NRUN.LT.14) GO TO 130
      GAP  = [illegible]
      ICONF= 0
      IF(NRUN.GE.23) ICONF=1
      IF(NRUN.LT.31) GO TO 13[illegible]
      GAP  = 0.15
      ICONF= 0
      IF(NRUN.GE.[illegible]) ICONF=1
      IF(NRUN.GE.[illegible]) STEP =0.1[illegible]
      IF(NRUN.GE.[illegible]) ICONF=[illegible]
      IF(NRUN.GE.[illegible]) ICONF=1
      IF(NRUN.LT.[illegible]) GO TO 13[illegible]
      GAP  =[illegible]
      ICONF=0
      IF(NRUN.GE.75) ICONF=1
```

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```
      IF(NRUN.GE.84) STEP =0.5
      IF(NRUN.GT.99) GO TO 130
      STEP =0.1
      ICONF=1
      STCONF=-0.266
      GO TO 130
      ICONF=1
      STCONF=0
      GO TO 130
      ICONF=1
      STCONF=1
      GO TO 130
      ICONF=1.9
      IGAPCNF=0
      ICCONF=1
      IGAPCNF=1
      IC CONF=1
  130 CONTINUE
      GAP=2.54
      STEP=2.54
      IF(ISTAG.GT.0) CONF =4*IN-L
      IF(ISTAG.GT.0) CONF = 4*GAP
      WRITE(6,330) (W(31),W(27),W(19),W(28),W(26),W(29),W(33),W(30),
     1 LINE=LINE+12
      WRITE(6,340) (W(32),W(5),GAP,STEP,CONF
      IF(ICONF.EQ.0) WRITE(6,330)
      WRITE(6,340)
  140 CONTINUE
C
C     CONDUCTION CORRECTED HEATING
      DO 133 I=1,KT
      IF(WSTORE(22,I).GT.20.0 .OR.(ABS(WSTORE(23,I)).GT.2.76)) GO TO
     1 133
      WSTORE(22,I)=2.54
      IF(RC.GT.0.0) BC=0.62
      IF(RC.LT.0.0) BC=0.62
      ALPHA =WSTORE(21,I)*2.54
      IF(A9.GT.0.0) A9=0.62
      IF(A9.LT.0.0) A9=0.62
      V= A9*SIN(-ALPHA) + A9*COS(-ALPHA)
```



```
      IF(W(21) .GT. 7.62) W(21)=  7.62
      W(22) = A*XINCH + B*W(21)
      W(23) = AC*XINCH + D*W(21)
      W(24) = E*W(23) + GAMC

      W(24) ACW CONTAINS GAMMA

  19  43 = ICP
      IWORD( 1) =  1,  BUTT JOINT
                   2,  CONTOURED
                   3,  OVERLAP
                   4,  INCLINED

      IWORD( 3)    1,  UP-STREAM WALL OF GAP
                   2,  DOWN STREAM WALL OF GAP
                   3,  PARALLEL WALL
                   4,  STAGNATION
                   5,  TILE TOP

      IWORD( 3) = 1
      IF(W(22).GT. 7.615)          IWORD(3) = 4
      IF(W(22).GT. 7.615) IWORD(3) = 5
      IF(W(21).EQ.0.0 ) IWORD(3) = 3
        WORD( 4) = WX(22) COORDINATE
        WORD( 5) = W(21) Y COORDINATE
      IF(W(21).LT.-7.62) WORD( 2) =-7.62
      IF(W(21).GT. 7.62) WORD( 3) = 7.62

        WORD( 6) = W(20)

        WORD( 7) = Z
        WORD( 8) = W(22) +7.62
        WORD( 9) = X - MEASURED FROM LEADING EDGE OF TILE
        WORD(10) = W(21)
        WORD(11) = W(24)/57.2957795
        WORD(12) = GAMA (RADIANS)
        WORD(13) = GAP
        WORD(14) = STEP

      GAP FLOW LENGTH  WORD(12)

      IF(WORD( 5) .GT. 7.62) GO TO 192
        WORD(12) =  1.0E-30
        GO TO 193
 192  IF(WORD( 4) .NE. -7.62) GO TO 193
        FLX = GAP * WORD( 6) + 7.62
        GO TO 194
 193  IF(WORD( 4) .NE.  7.62) GO TO 194
        FLX = GAP * WORD( 6) + 7.62
        GO TO 195
 194  IF(WORD( 4) .NE. -7.62) GO TO 195
        FLX = GAP * WORD(14) + 7.62
        IF(ABS(WORD( 14).LT. 1.0E-5) FLY= 5.0744 * GAP
```

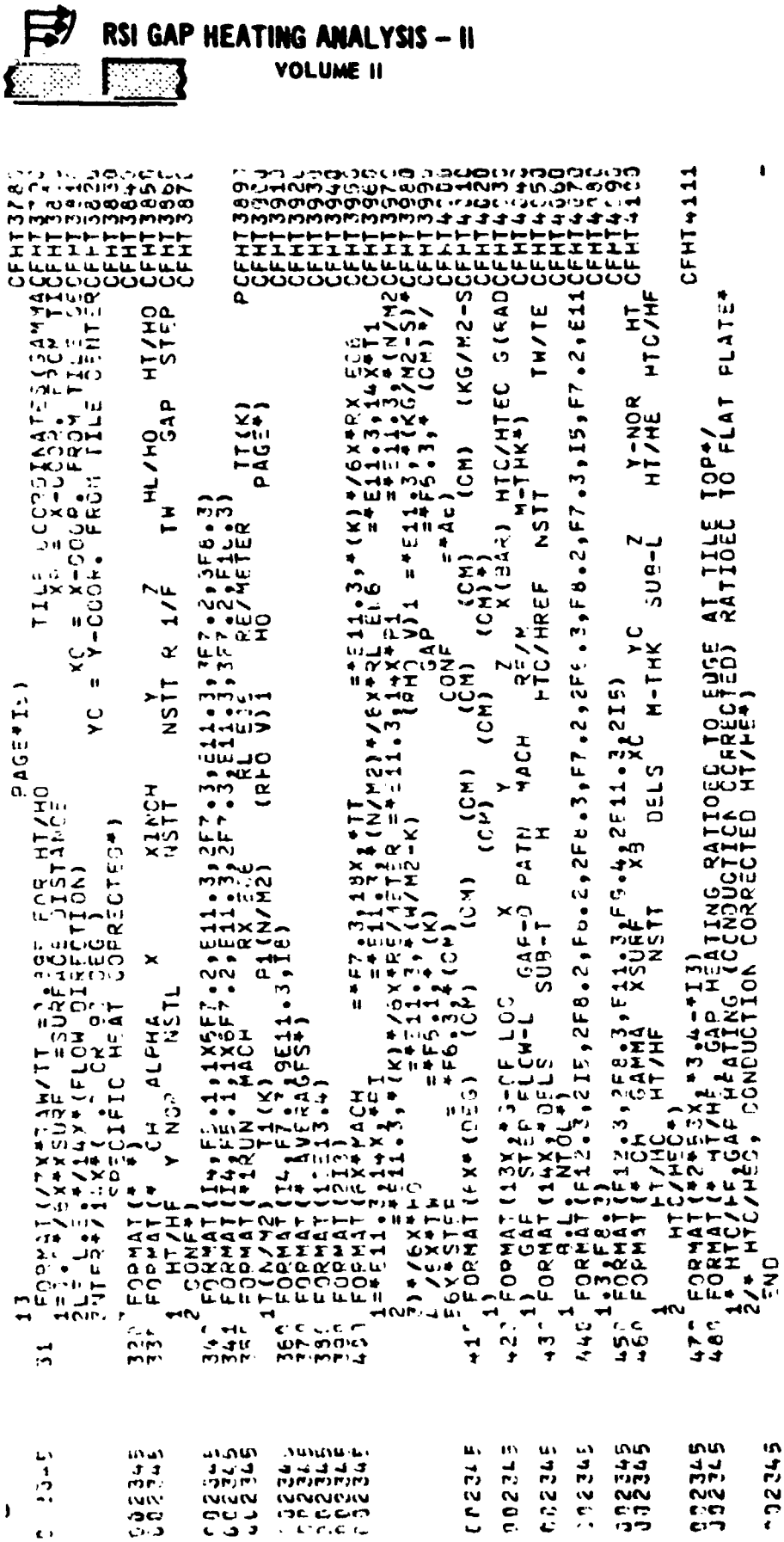
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        C                                   9.6744= 3.81*2.54   10.414= 4.1*2.54  CFHT2548
001246     195 FLX = 1.8-1   + GAP + WORD(4) + ..2                                 CFHT2553
001252         FLY = 4.8                                                          CFHT255A
001253     196 IF(GAMS.EQ. WORD(3)) GO TO 197                                     CFHT255B
001255         GAMS = WORD(3)                                                     CFHT255C
001256         COSG = COS(WORD(9))                                                CFHT255D
001261         SING = SIN(WORD(9))                                                CFHT255E
001263     197 WORD(12) = COSG*FLX + SING*FLY                                     CFHT255F
001267     198 CONTINUE                                                           CFHT255G
        C                                                                         CFHT255H
001267          WORD(13) = 6.48                                                   CFHT2560
        C                  6.48 = 2.55*2.54                                       CFHT2570
        C                  GAP DEPTH                                              CFHT2580
001271         IWORD(14) = ICONF                                                  CFHT2590
        C                  0 STAGGERED                                            CFHT2600
        C                  1 IN-LINE                                              CFHT2610
001272          WORD(15) = W(31)                                                  CFHT2620
        C                = MACH NO.                                               CFHT2630
001274          WORD(16) = W(33)                                                  CFHT2640
        C                = REYNOLDS NO. PER METER                                 CFHT2650
001275         F1 = (X2-V)*(X3-V)/D1                                              CFHT2660
001302         F2 = (X1-V)*(X3-V)/D2                                              CFHT2670
001305         F3 = (X2-V)*(X1-V)/D3                                              CFHT2680
001311         IF(W(33).GT. 5.0E+06) GO TO 201                                    CFHT2681
001314          WORD(17) = F1*0.4445 + F2*0.83058 + F3*0.47498                    CFHT2690
        C               .4445=.175*2.54,  .83058=.327*2.54,.47498=.187*2.5        CFHT2700
        C       WORD(17) = MOMENTUM THICKNESS                                     CFHT2710
001322          WORD(18) = F1*5.588  + F2*11.557  + F3*5.969                      CFHT2720
        C                    5.588=2.2*2.54, 11.557=4.55*2.54, 5.969=2.35*2.54    CFHT2730
        C                = DISPLACEMENT THICKNESS                                 CFHT2740
        C       WORD(19) = F1*0.6233 + F2*0.46736 + F3*0.6233                     CFHT2750
        C       USE AVERAGE SUB LAYER THICKNESS OF    0.  CM                      CFHT2751
        C                                                                         CFHT2752
        C                  0.6233=.245*2.54, 0.46736=.184*2.54                    CFHT2760
        C                = SUB-LAYER THICKNESS                                    CFHT2770
001330          WORD(19) = 0.5                                                    CFHT2773
001331         GO TO 202                                                          CFHT2741
001332     201  WORD(17) = (F1+F3)*0.8305 + F2                                    CFHT2772
        C                       0.8305 = MOMENTUM THICKNESS AT 16.51 CM           CFHT2773
001336          WORD(18) = (F1+F3)*5.7861 + F2*10.719                             CFHT2774
        C                          10.719=DISP.THICK. Y=0                         CFHT2775
        C                   5.7861           DISP.THICK. Y=16.51                  CFHT2776
001342          WORD(19) = 0.15                                                   CFHT2778
001344     202 CONTINUE                                                           CFHT2779
001344          WORD(20) = HTCOHF*HFCHC*W(34)/1039.001                            CFHT2790
        C                = HEAT TRANSFER COEFF. (KG/M2-S)
        C
        C                  HT BASE CHANGED (9/5/74) TO HTOHC FROM HTOHF
        C
        C                   SPECIFIC HEAT OF AIR =1039.001 J/KG-K                 CFHT2800
001350          WORD(21) = HTCOHF                                                 CFHT2810
001351          WORD(22) = CPC3* W(11)*HTCOHF                                     CFHT2830
        C                = STATION NUMBER CORRECTED --- CALIBRATION               CFHT2840
001353          WORD(23) = W( 9)/W(27)                                            CFHT2850
        C                = B.L. TEMP. RATIO                                       CFHT2860
001355         IWORD(24) = 3                                                      CFHT2870
        C                  1, LAMINAR                                             CFHT2880
        C                  2, TRANSITIONAL                                        CFHT2890
```

```
CFHT2
CFHT2
CFHT2
CFHT2
CFHT2
CFHT2
CFHT2
CFHT2
CFHT3
CFHT3
CFHT3
CFHT3
CFHT3
CFHT3
CFHT3
CFHT3
```

```
      3, TURBULENT
      HTOHF=1.
      IF(W(20).GT.1.) GO TO 220
      WRITE(6,311) ICH,W(24),XSURF,WORD(7),W(22),W(21),W(23),V,
     1    WORD(19),W(3),WORD(18),WORD(17),
     2    WORD(16),HTOHF
      GO TO 220
C
C 210 IF(RUN.GT.1.) GO TO 213
      IF(ICH.GE.9.AND.ICH.LE.14) GO TO 210
      IF(ICH.GE.25.AND.ICH.LE.25) GO TO 210
      IF(ICH.GE.26.AND.ICH.LE.31) GO TO 210
      IF(ICH.GE.37.AND.ICH.LE.42) GO TO 210
      IF(ICH.GE.43.AND.ICH.LE.48) GO TO 210
      IF(ICH.GE.65.AND.ICH.LE.65) GO TO 210
      IF(ICH.GE.66.AND.ICH.LE.71) GO TO 210
      IF(ICH.GE.72.AND.ICH.LE.77) GO TO 210
      IF(ICH.GE.78.AND.ICH.LE.83) GO TO 210
C
C 213 IF(ICH.GE.35.AND.ICH.LE.39) GO TO 204
      IF(ICH.GE.49.AND.ICH.LE.52) GO TO 204
      IF(ICH.GE.62.AND.ICH.LE.65) GO TO 204
      IF(ICH.GE.82.AND.ICH.LE.85) GO TO 204
      IF(ICH.GE.73.AND.ICH.LE.77) GO TO 204
      IF(ICH.GE.37.AND.ICH.LE.73) GO TO 204
      IF(ICH.GE.37.AND.ICH.LE.73) GO TO 204
      IF(ICH.GE.66.AND.ICH.LE.69) GO TO 204
      IF(ICH.GE.53.AND.ICH.LE.56) GO TO 204
      IF(ICH.GE.43.AND.ICH.LE.43) GO TO 204
      IF(ICH.GE.27.AND.ICH.LE.30) GO TO 204
      IF(ICH.GE.1.AND.ICH.LE.13) GO TO 204
      IF(ICH.GE.21.AND.ICH.LE.24) GO TO 204
      IF(ICH.EQ.1.OR.ICH.EQ.13) GO TO 214
C 204 IF(ICH.EQ.JEDGE) GO TO 214
```

```
      CFHT316.
C     CONTROLS
C     HTCHF = WA  (FACTORED HEATING FOR CONDUCTION
      WORD(6) = HT/(CORRECTED FOR EDGE)
      HTCOHEC = WSTORE(1,1)/WSTORE(1,IEDGE)
      WRITE(6,10) ICH,W(22),XSURF,WORD(22),WORD(21),W(21),W(22),WORD(17),
     1     WORD(15),ITOHF,HTCOHF,WORD(14),WORD(18),HTCOHEC
   10 FORMAT(1H1,I2,2X,6E12.4,/,1X,5E12.4,/,1X,3E12.4)
      WORD(6)=HTCOHEC
      IF(HTCOHEC.GE.1.0) GO TO 250
      NTOL = NTOL + 1
      KN = KN +1
      DO 23 KM=1,4
      WORDT(KM,KN) = WORD(KM)
      IF(KN.LT.2) GO TO 240
      WRITE(11) KN,((WORDT(KM,JN),KM=1,24),JN=1,KN)
      KN =
  240 CONTINUE
C
      IF(NTAPE.EQ.0) GO TO 250
      MSKIP=MSKIP+1
      IF(MSKIP.LT.NSKIP) GO TO 251
      MSKIP=0
      WRITE(12,34) WORD(1),IWORD(2),IWORC(3),( WORD(M),M=4,13),IWORD(1
     1),IWORD(15),IWORD(16),IWORD(17),IWORD(18),IWORD(19),IWORD(20),
     2IWORD(21),IWORD(22),IWORD(23),IWORD(24),NTOL
      IF(NRUN.EQ.NRUN) GO TO 270
      NRUN = NRUN
      IF(NRUN2.LT.25) GO TO 265
      NRUN2=NRUN2+1
      LINE2=LINE2+1
      WRITE(21,35) NRUN,W(31),W(19),W(26),W(33),W(27),W(28),W(29),W(30)
     1,IFAG2
      WRITE(21,36) (SUM(I),I=1,12)
      WRITE(21,36) (SUM(I),I=13,24)
      WRITE(21,36) (SUM(I),I=25,36)
      WRITE(21,36) (SUM(I),I=37,48)
      WRITE(21,36) (SUM(I),I=49,60)
      WRITE(21,36) (SUM(I),I=61,72)
      WRITE(21,36) (SUM(I),I=73,84)
      WRITE(21,36) (SUM(I),I=85,96)
      WRITE(21,36) (SUM(I),I=97,108)
      WRITE(21,36) TOTAL
      IF(JONE.EQ.1.OR.K.LT.KT) GO TO 30
      I=1
      SUM(I)=SUM(I)/TOTAL
      CONTINUE
      WRITE(21,36) NPUN,SUM
      NRUN=1
      IF(KN.EQ.1) KN,((WORDT(KM,JN),KM=1,24),JN=1,KN)
      CALL EXIT
      CFHT TEST (*I2,*), MDAC-E RSI GAPS, RUN (*I3,*)
```



ORIGINAL PAGE IS
OF POOR QUALITY

```
      SUBROUTINE DT2DX2(KT,MSTORE,IORDER,ISPRED,DELTA,K  ,DT2DX,IW)
C     CONDUCTION CORRECTION (THIN SKIN TITLES)   DT2/DX2    DT2/DY2
C                                                   H.E.CHRISTENSEN AUG 74
C
C     KT     = TOTAL NO. T/C FOR THAT RUN
C     MSTORE = STORAGE ARRAY FOR T/C INFORMATION
C     IORDER = ORDER OF CURVE FIT
C     ISPRED = NO. AND WHICH (INCH) EACH SIDE OF T/C TO BE USED IN CURVE FIT
C              STRING
C     DELTA  = CHANNEL NO. FOR WHICH DT2/DX2 AND DT2/DY2 TO BE DETERMINED
C     DT2DX  = SPECIFIC CONDUCTIVITY (1)  FOR X, (2) FOR Y   ( F/INCH**2)
C     TMEAN  = MEAN TEMP. (R)                                ( F)
C     DT     = ALLOWED TEMP. CHANGE                          ( F)
C     IW     = DETAIL PRINT OUT WHEN IW.LT.2
C
      DIMENSION MSTORE(34,90),DT2DX(2),IF(30,2),DD(30),IK(2),AA(50),
     1 EQUIVALENCE (AICH,ICH)
      DATA LB,TMEAN,DT,    IWT/3,*25.,25.,  3/
      IF(ISPRED.GE.1) GO TO 2
      ISPRED = IORDER/2
      WRITE(6,90) IORDER,I,ISPRED
    2 CONTINUE
      DO 3 J=1,2
      IF(IF(1,J) = CHANNEL NO. IN STRING
      J = 1 X-STRING
      J = 2 Y-STRING
      DT2DX(1) = 0.
      DT2DX(2) = 0.
      III = ICORDER + 1
      III = II + 1
      IF(ABS(MSTORE( 9,K)  - TMEAN) .GT. DT) GO TO 20
      DO 43 J=1,2
      IK(J) = 0
      DO(II) = 1.3  E+30
      KCH = 12
      IF(J.EQ. 1) GO TO 12
      KCH= 21
      CONTINUE
   12 FORMING THE STRING (WORK FORM UPPER END)
      DO 1  I=1,KT
      IF(ABS(MSTORE(KCH,I) - TMEAN) .GT. DT) GO TO 1
      IF(ABS(MSTORE(KCH,I)) .GT. 2.*D) GO TO 1
```

```
      IF(ABS(WSTORE(JCH,I) - WSTORE(JCH,K))   .GT. DELTA) GO TO 40
   20 IF(WSTORE(KCH,I)   .GT. DC(IN))  GO TO 30
      DO(IN+1) = DO(IN)
      IF(IN+1, J) = IF(IN, J)
      IF(IN+1, J) = I - 1
   30 IF(IN.EQ.2) GO TO 20
      IN = IN+1
      DO(IN) = WSTORE(KCH,I)
      IF(IN, J) = IK(J) + 1
   40 CONTINUE
      IK(1) = NO. OF POINTS IN X-STRING
      IK(2) = NO. OF POINTS IN Y-STRING
      IF(IRW.GE.9010) GO TO 43
      WRITE(6,9010) K,J,IK(J),WSTORE(KCH,K), WSTORE(JCH,K)
      LLL = IK(J)
      DO 42 LL=1,LLL
      YAICH = WSTORE(4,KJ)
      WRITE(6,9020) LL,DO(LL),IP(LL,J),ICH
   42 CONTINUE
   43 DO 46 J=1,2
      KNN = IK(J)
      DO 46 KN=1,KNN
      IF(IP(KN,J) .EQ. K) GO TO 47
   46 CONTINUE
      ILOW = KN - ISPRED
      IF(ILOW.LT.1) ILOW=1
      IHIGH = ILOW + 2*ISPRED
      IF(IHIGH.GE.KNN ) GO TO 30
      IHIGH = KNN
      ILOW = IHIGH -2*ISPRED
      IF(ILOW.LT.1) GO TO 110
   47 CONTINUE
      IF(IHIGH.LT.IWT)
     1WRITE(6,9030) ILOW,IHIGH,ISPRED
      DO 60 LL=1,5
   60 AA(LL) = 0.0
      CC(1) = 1.0
      KCH = 2
      IF(J.EQ.1) GO TO 70
      KCH = 1
   70 DO 80 JI = ILOW,IHIGH
      KJ = IP(JI,J)
      DO 80 LL = 1,IORDER
      CC(LL+1) = CC(LL)*WSTORE(KCH,KJ)
   80 AA(LL) = WSTORE( 3,KJ)
      IF(IW.LT.IWT)
     1WRITE(6,9040) K,WSTORE(KCH,KJ),(CC(LLL),LLL=1,IIF1)
      KK = 0
      DO 90 I=1,II
```

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```
      DO 61 JJ=1,KK
      KK = KK + 1
      AA(KK) = AA(KK) + C2(JJ)*(JJ)
   61 IF(IW.LT.6) WRITE(6,6) (AA(LLL),LLL=1,KK)
      CALL MA-ILA(II,AA)
      IF(IW.LT.IWT) WRITE(6,97) (AA(LLL),LLL=1,II)
      EVALLAT= DT2DX
      DO 1 I=3,II
      AA = (I-1)*AA(I-2)
      IF(I.GT.3) AA = AA + DT2DX(J)
      DT2DX(J) = AA
    1 CONTINUE
      IF(IW.LT.IWT)
      IRETURN
    6 FORMAT(* ORDER OF EQ.*,I4,*) CAUSES SPRED TO BE CHANGED TO *I4,*
    6 FORMAT(* STRING K=J+K(J)*3I4,*  X=*E13.4,*  Y=*E13.4/
     1 111X*DIST (E  CHANNEL*)
   97 FORMAT(* E13.4,2I4)
   97 FORMAT(* FLOW,IHIGH,ISPRED*3I5)
   97 FORMAT(* K=*I4,* DT2DX=*E12.4,* DT2DY=*E12.4,* (R/IN**2)*)
   97 FORMAT(* AA MATRIX*/11E11.3)
   97 FORMAT(* EQ. COEFF.*/11E11.3)
      END
```

```
      SUBROUTINE HARIN(NCL,HBM)
      DIMENSION HBM(1)
      XKJF(N1,N2) = NCA*(N1-1) + N2 + (N1-1) - (N1*(N1-1))/2
      XKJA=XKJF(NCA,NCA)
      HBM IS LENGTH OF REDUCED AS = (NCA*(NCA+3))/2
      NCAMX=(NCA*(NCA+3))/2
      NCA=NCA-1
      NCM= NCA-1
      NCAMA =XKJF(L,L)
      ADD = HBM(NCAMA)
      LN=NCA1 = LP,NCA
      DO 30 I = LP,NCA
      NNN=NN-I
      AM =HBM(NN)/AD
      NP=XKJF(I,I)
      IF(AM.EQ.0.) GO TO 30
      DO 60 J = I,NC
      HBM(NP)=HBM(NF)-AM*HBM(NNN)
      NNN=NNN+1
      NP=NP+1
   60 CONTINUE
   30 CONTINUE
      NN=NN+1
      DO 70 I = 2,NCA
      KJ = XKJF(NCA-I+1,NC)
      HBM(KJ) = HBM(NCAMX)/HBM(NCAMX-1)
   70 CONTINUE
      IP=NCA+2-I
      DO 80 J = IP,NCA
      KK = KJF(J-NC+J,NC)
      NK = XKJF(J,NC)*HBM(KK)
   80 NK = XKJF (IP-1,IP-1)
      HBM(KJ) = HBM(NK)/HBM(NK)
  100 CONTINUE
  110 CONTINUE
      NN=1
      DO 150 I=1,NCA
      NP=XKJF(I,NC)
      HBM(NN)=HBM(NP)
      NN=NN+1
  150 RETURN
      END
```

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```
      SUBROUTINE TABLE(IDUM,I     ,IT,X,XTAB,Y,YTAB)
      ONE DIMENSIONAL TABLE LOOKUP WITH MEMO-C
      DIMENSION XTAB(1),YTAB(1)
      END BRACKET
      IF(X.LT.XTAB(IT-1)) GO TO 1
      IF(X.GT.XTAB(IT)) GO TO 3
      IF(X.GT.XTAB(II+1)) GO TO 40
      IF(X.GT.XTAB(II)) GO TO 40
      GO TO 45
    3 IF(XTAB(I-1).LE.X) GO TO 4
      IF(I.EQ.2) GO TO 40
      CONTINUE
    4 IF DESIRED, THE XTAB POINT TO THE RIGHT
      A=(X-XTAB(I-1))/(XTAB(I)-XTAB(I-1))
      Y=A*YTAB(I)+(1.-A)*YTAB(I-1)
      RETURN
      END
```

CFHT TEST (92), MDAC-E RSI GAPS, RUN (7) 1973 3.4- 8 PAGE 1

MACH = 16.220 BI = 5.111E+03(K)
REX/FT = 1.078E-12 T1 = 9.133E+02(K)
RHO = 9.078E-06 RHO V1 = 9.693E+00(KG/M2-S)
RE/METER = 2.061E+06 GAMO V1 = 1.000 (CM)
TOO = 3.011E+03(K) CONF =STAG
STEP = 1.000(CM)

TAWALL =0.895 FCR MI/MO TILE COORDINATES(GAMMA=0.)
XSURF =SURFACE DISTANCE XB = X-COORD. FROM TILE CENTER
(+ IS DOWNSTREAM) YC = Y-COORD. FROM TILE CENTER
MI/MO, GAP HEATING RATIO TO EDGE AT ZERO
MI/ME, CONDUCTION CORRECTED MI/ME RATIOED TO FLAT PLATE

SPECIFIC HEAT CORRECTED

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-MOM (CM)	MI (KG/M2-S)	MI/MO	MI/NF	NSTT	QELB (CM)	M-THK (CM)	SUB-L (CM)	MI/ME	HTC/NF	HTC/NEC
82.5	-13.39	7.62	1.00	-7.62	5.78	0.00	1.117	-1.320E-05	.083	.888	-2.222E-10	11.552	.81	.50	.888	-.005	-.004
82.5	-12.37	14.95	7.33	-7.62	+.91	6.27	-7.990E-06	.681	.001	-4.234E-10	10.80	.78	.53	.881	-.003	-.004

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ORIGINAL PAGE IS
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CFHT TEST (92), MDAC-E RSI GAPS, RUN (7) 1973 PAGE 2

CN	GAMMA (DEG)	XSUFF (CM)	XO (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
47	82.5	-6.82	14.97	7.3[illegible]	-7.62	1.16	6.29	6.816E-05	.031	.025	1.702E-07	10.79	.78	.50	.633	.026	.831
48	82.5	-7.99	14.89	7.26	-7.32	.33	6.21	1.367E-03	.450	.370	3.855E-05	10.81	.75	.50	.488	.369	.474
49	82.5	-7.37	14.89	7.27	-7.31	1.00	6.25	2.216E-03	.934	.770	1.679E-04	10.80	.73	.50		.770	
50	82.5	-3.63	14.95	7.37	-3.69	1.03	6.74	2.430E-03	1.033	.833	1.996E-04	10.66	.77	.50		.831	
51	82.5	[illegible]	12.82	[illegible]	[illegible]	1.22	7.34	2.313E-03	.979	.773	1.749E-04	10.58	.76	.50		.773	
52	82.5	3.58	14.97	7.38	3.55	1.09	7.76	2.257E-03	.954	.748	1.644E-04	10.37	.75	.50		.748	
53	82.5	7.24	14.78	7.16	7.24	.50	9.04	1.321E-03	.553	.418	5.435E-05	10.28	.75	.50		.426	
54	82.5	7.89	14.88	7.31	7.63	.31	9.19	7.[illegible]E-04	.323	.241	1.758E-05	10.23	.73	.50	.502	.238	.585
55	82.5	6.69	14.92	7.35	7.52	1.11	8.23	9.337E-05	.048	.336	3.340E-07	10.22	.73	.53	.088	.030	.076
56																	
57																	
58																	
59	82.5	13.27	14.87	7.29	7.62	5.62	9.18	-5.512E-05	.001	.001	-6.005E-09	10.23	.75	.50	.003	-.018	-.041
60	82.5	-7.14	15.24	7.62	-7.14	.27	6.62	1.040E-03	.446	.357	3.652E-05	10.70	.78	.50	.478	.357	.443
61	82.5	-7.35	15.24	7.62	-7.33	1.17	6.66	6.874E-05	.030	.024	1.642E-07	10.71	.73	.50	.032	.024	.031
62	82.5	-7.17	15.24	7.62	-7.13	2.34	6.62	5.796E-06	.002	.002	1.134E-09	10.70	.73	.50	.003	.002	.003
63	82.5	-7.19	15.24	7.62	-7.13	3.71	6.62	2.614E-06	.001	.001	4.449E-11	10.71	.78	.50	.001	.003	.004
64																	
65	82.5	-7.16	15.24	7.62	-7.17	5.63	6.62	8.049E-07	.000	.000	2.544E-11	10.70	.73	.50	.000	.000	.000
66	82.5	-3.44	15.24	7.62	-3.44	.36	7.11	1.188E-03	.503	.400	4.577E-05	10.57	.77	.50	.507	.400	.501
67	82.5	-3.44	15.24	7.62	-3.44	1.19	7.11	7.188E-05	.033	.024	1.710E-07	10.57	.77	.50	.029	.024	.029
68																	
69	82.5	-3.50	15.24	7.62	-3.5[illegible]	3.74	7.10	1.265E-05	.004	.003	4.144E-09	10.57	.77	.50	[illegible]	.004	.005
70																	
71	82.5	-3.4[illegible]	15.24	7.62	-3.4[illegible]	[illegible].81	7.11	9.698E-06	.004	.003	3.112E-09	10.57	.77	.50	.0[illegible]5	.003	.004
72																	
73	82.5	0.03	15.24	7.62	0.07	1.15	7.55	7.513E-05	.033	.026	1.889E-07	10.43	.76	.50	.033	.025	.032
74																	
75																	
76	82.5	3.07	15.24	7.62	0.0[illegible]	4.99	7.55	-6.646E-06	.086	.000	-1.603E-10	10.43	.76	.53	.000	-.002	-.003
77	82.5	[illegible]	15.24	7.62	[illegible]	3.74	7.55	-8.316E-05	.080	.000	-6.[illegible]E-1[illegible]	10.43	.76	.50	.000	-.003	-.005
78	82.5	3.59	15.24	7.[illegible]	3.5[illegible]	.38	9.02	1.045E-03	.442	.335	3.562E-05	10.28	.75	.50	.466	.337	.505
79	82.5	3.63	15.24	7.62	[illegible]	1.17	9.03	9.230E-05	.040	.038	2.749E-07	10.28	.73	.50	.042	.030	.040
80																	
81	82.5	3.55	15.24	7.62	3.5[illegible]	3.74	9.02	2.491E-05	.031	.021	2.310E-09	10.29	.75	.50	.021	.016	.011
82	82.5	3.53	15.24	7.62	3.56	5.70	8.02	5.830E-05	.002	.001	7.249E-09	10.25	.75	.50	.012	.016	.037
83	82.5	3.62	15.24	7.62	3.62	5.70	8.53	6.931E-05	.025	.044	2.567E-08	10.20	.75	.50	.006	.022	.039
84	82.5	7.37	15.24	7.62	7.33	.31	8.51	8.308E-04	.355	.262	2.167E-05	10.12	.74	.50	.676	.262	.417
85	82.5	7.36	15.24	7.62	7.35	1.09	9.22	9.641E-05	.041	.030	2.562E-07	10.12	.74	.50	.074	.030	.071
86																	
87																	
88																	
89	82.5	7.35	15.24	7.62	7.35	5.66	8.51	6.574E-06	.013	.072	1.331E-09	10.12	.74	.50	.035	.002	.005

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CFHT TEST (921), POST-E RSI GAPS, RUN (6) 1973 PAGE 3

MACH = 1.20
REYNOLDS = 1.00E+06
RE/FOOT = 1.00E+06
MOM = 0.000 (N-M/M2-K)
TEMP = 555.6 (K)
STEP = 0.100 (CM)

TT = 1.12E+03(K)
PT = 5.14E+06(N/M2)
TI = 9.11E+02(K)
(RHO V)I = 9.11E+00(KG/M2-S)
GAP = 1.27 (CM)
CONF = STAG

TANGENT SURFACE FOR HT/MC
SURFACE DISTANCES
(FLOW DIRECTION)
HT/MEC, GAP HEATING (RADIOGEOMETRIC EDGE AT TILE CENTER)
HTC/MEC, CONDUCTION CORRECTED HT/ME

TILE COORDINATES(GAMMA=0.0)
XC = X-COORD. FROM TILE CENTER
YC = Y-COORD. FROM TILE CENTER
TILE/FLAT PLATE HEATING RATIO

SPECIFIC HEAT CORRECTED

GAMMA (DEGS)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CP)	HI (KG/M2-S)	HT/HO	HT/HF	NSIT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/ME	HTG/HF	HTG/MEC
0.0	-12.72	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.803	-1.61E-09	11.45	.82	.50	.003	-.002	-.002
15.0	-12.28	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
30.0	-11.00	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
45.0	-9.14	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
60.0	-7.11	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-5.18	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-5.08	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-4.98	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-4.88	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-4.78	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-4.67	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-4.57	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-4.47	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-4.37	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-4.27	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-4.17	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-4.06	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-3.96	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-3.86	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-3.76	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-3.66	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-3.56	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-3.45	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-3.35	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-3.25	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-3.15	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-3.05	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-2.95	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-2.84	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-2.74	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-2.64	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-2.54	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-2.44	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-2.34	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-2.23	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-2.13	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-2.03	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-1.93	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-1.83	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-1.73	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-1.62	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-1.52	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-1.42	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-1.32	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-1.22	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-1.12	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-1.01	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-.91	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-.81	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-.71	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-.61	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-.51	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-.40	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-.30	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-.20	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	-.10	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002
75.0	.00	7.62	1.27	-7.62	3.33	-1.97	-5.51E-06	.003	.827	-1.66E-09	11.45	.82	.50	.003	-.002	-.002

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CFHT TEST (921, MDAC-E RST GAPS, RUN (9) 1973 PAGE 5

MACH = 15.225 PT = 5.012E+03(N/M2)
RE/FOOT = 5.060E+06 PTI = 4.060E+01(N/M2)
RNOSE = 3.048E-02(M) TINF = 1.027 (CM)
THOU = 322.040(K) GAP = STAG
STEP = 0.000(CM) CONF = STAG

TAN(TT =FORCE FCR MOMO TILE COORDINATES(GAMMA=0.)
XSURF =SURFACE DISTANCE XO = XCOOR. FROM TILE CENTER
(DOWNSTREAM) XC = XCOOR. FROM TILE CENTER
MTC/HF, GAP HEATING RATIO QUOTED FOR ALL TILES
MTC/HEC, CONDUCTION CORRECTION APPLIED TO FLAT PLATE

SPECIFIC HEAT CORRECTED

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	H1 (KG/M2-S)	MT/HO	MT/HF	NSTT	DELS (CM)	M-THK (CM)	SUBSL (CM)	MT/HE	MTC/HF	MTC/HEC
0	63.0	13.39	7.62	.00	-7.62	5.70	-3.81	4.263E-06	.003	.993	1.214E-09	11.21	.01	.50	.883	.002	.002
1	60.0	-3.81	7.62	3.76	-7.62	1.19	-.48	5.493E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
2	60.0	-7.62	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
3	60.0	-11.43	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
4	60.0	-15.24	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
5	60.0	-19.05	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
6	60.0	-22.86	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
7	60.0	-26.67	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
8	60.0	-30.48	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
9	60.0	-34.29	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
10	60.0	-38.10	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
11	60.0	-41.91	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
12	60.0	-45.72	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
13	60.0	-49.53	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
14	60.0	-53.34	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
15	60.0	-57.15	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
16	60.0	-60.96	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
17	60.0	-64.77	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
18	60.0	-68.58	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
19	60.0	-72.39	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
20	60.0	-76.20	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
21	60.0	-80.01	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
22	60.0	-83.82	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
23	60.0	-87.63	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
24	60.0	-91.44	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
25	60.0	-95.25	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
26	60.0	-99.06	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
27	60.0	-102.87	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
28	60.0	-106.68	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
29	60.0	-110.49	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
30	60.0	-114.30	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
31	60.0	-118.11	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
32	60.0	-121.92	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
33	60.0	-125.73	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
34	60.0	-129.54	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
35	60.0	-133.35	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
36	60.0	-137.16	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
37	60.0	-140.97	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
38	60.0	-144.78	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
39	60.0	-148.59	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
40	60.0	-152.40	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
41	60.0	-156.21	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
42	60.0	-160.02	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
43	60.0	-163.83	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
44	60.0	-167.64	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
45	60.0	-171.45	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
46	60.0	-175.26	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
47	60.0	-179.07	11.43	3.67	-7.62	1.19	-.48	6.998E-05	.022	.924	1.411E-07	11.55	.03	.50	.919	.881	.881
48	60.0	-182.88	11.43	3.67	-7.62	1.19	-.48	1.428E-05	.004	.924	1.411E-07	11.55	.03	.50	.919	.881	.881

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ORIGINAL PAGE IS
OF POOR QUALITY

CFHT TEST (92), MDAC-E RSI GAPS, RUN (13) 1973 PAGE 7

MACH = 11.295		TT = 1.019E+03(K)	
RX FEG = 7.837E-12		PT = 5.183E+06(N/M2)	
RL ERG = 8.735E-12		TI = 4.085E+01(K)	
RE/METER = 3.171E+06		PI = 9.835E+01(N/M2)	
HO = 2.619E+00(W/M2-K)		(RHO V)I = 1.323E+01(KG/M2-S)	
TW = 323.5 (K)		GAP = .127 (CM)	
STEP = 0.000(CM)		CONF =STAG	

TAW/TT =0.995 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG.)
TILE COORDINATES(GAMMA=0.0)
XO = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER
SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XO (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	HSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	45.0	-13.33	7.62	0.00	-7.62	5.73	-5.39	1.152E-06	.001	.001	3.370E-10	10.88	.79	.58	.001	.001	.001
13	45.0	-6.83	7.62	1.00	-7.62	1.14	-5.39	5.342E-05	.023	.018	9.676E-08	16.88	.79	.50	.021	.018	.021
14	45.0	-8.02	7.62	[illegible]	-7.62	.33	-5.39	1.257E-03	.532	.433	2.359E-05	[illegible]	.79	.58	.584	.433	.498
15	45.0	-7.29	7.62	[illegible]	-7.29	[illegible]	-5.16	[illegible]	1.057	.869	[illegible]	[illegible]	.79	[illegible]		.869	
16	[illegible]	-3.63	7.62	[illegible]	-3.63	[illegible]	-2.57	[illegible]	1.136	1.013	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.106	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.943	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.792	.672	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.311	.262	[illegible]	[illegible]	[illegible]	[illegible]	.393	[illegible]	.398
21	45.0	8.73	7.62	[illegible]	7.62	1.17	5.39	5.367E-05	.023	.013	[illegible]	[illegible]	[illegible]	[illegible]	.029	.015	.028
[illegible]	45.0	-13.33	7.62	[illegible]	7.62	5.73	5.73	1.633E-06	.001	.001	9.766E-11	11.66	.80	.50	.001	.001	.001
[illegible]	45.0	-13.35	11.38	[illegible]	-7.62	5.76	-2.73	3.406E-07	.000	.000	5.366E-12	11.37	.82	.58	.003	.000	.000
30	45.0	[illegible]	11.45	3.67	-7.62	1.16	-2.68	5.363E-05	.023	.028	1.067E-07	11.37	.82	.50	.019	.028	.019
[illegible]	45.0	-7.97	[illegible]	[illegible]	-7.62	.33	-2.65	[illegible]	.669	[illegible]	[illegible]	11.30	[illegible]	[illegible]	.501	[illegible]	.499
[illegible]	45.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-2.44	[illegible]	1.217	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-3.71	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]	11.57	[illegible]	[illegible]	[illegible]	2.73	2.353E-03	.996	.885	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]	11.51	3.59	3.59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.674	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	
[illegible]	45.0	7.97	11.41	[illegible]	7.62	.37	5.07	7.234E-04	.308	[illegible]	1.680E-05	[illegible]	[illegible]	[illegible]	.457	[illegible]	.458
[illegible]	45.0	8.75	11.38	[illegible]	7.62	1.15	8.03	4.670E-05	.020	.015	6.921E-08	10.28	.73	.53	.029	.015	.029
42	45.0	13.29	11.24	3.62	[illegible]	5.66	7.95	2.734E-06	.001	.001	2.385E-10	10.31	.75	.50	.002	.001	.002
43	46.0	-13.37	14.97	7.39	-7.62	5.70	-.19	1.597E-06	.001	.001	9.664E-11	11.15	.83	.50	.001	.001	.001
44																	

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CFMT TEST (92), MDAC-2 RSI GAPS, RUN (17) 1973 PAGE 6

CH	GAMMA (DEG)	XSUF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	CELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
45																	
46																	
47	45.0	-8.63	14.9[illegible]	7.3[illegible]	-7.62	1.16	-.19	5.311E-05	.021	.019	9.510E-08	11.55	.83	.50	.022	.019	.022
48	45.0	-7.99	14.8[illegible]	7.26	-7.62	.33	-.25	1.125E-03	.476	.432	4.788E-05	11.55	.83	.50	.486	.432	.485
49	45.0	-7.3[illegible]	14.89	7.27	-7.31	[illegible]	-.02	2.313E-03	.974	.891	2.130E-04	11.56	.83	.50		.871	
50	45.0	-3.69	14.93	7.37	-3.69	[illegible]	2.58	2.143E-03	.906	.819	1.103E-04	11.49	.82	.50		.808	
51	45.0	0.00	15.42	7.4[illegible]	0.0[illegible]	[illegible]	2.23	1.759E-03	.745	.533	1.392E-04	11.04	.80	.50		.631	
52	45.0	3.59	14.97	7.36	3.54	[illegible]	7.73	1.491E-03	.631	.453	7.188E-05	10.38	.75	.50		.490	
53	45.0	7.24	14.78	7.16	7.24	.10	13.19	9.137E-04	.387	.250	2.342E-05	9.48	.7[illegible]	.50		.260	
54	45.0	7.63	14.88	7.26	7.62	.11	10.52	6.028E-04	.255	.160	9.361E-06	9.33	.63	.50	.658	.160	.646
55	45.0	4.69	14.92	7.[illegible]	7.62	1.11	10.55	9.085E-05	.038	.023	2.265E-07	9.32	.63	.50	.099	.023	.097
56																	
57																	
58																	
59	45.0	13.27	14.87	7.26	7.62	5.62	10.52	3.262E-06	.001	.001	2.325E-10	9.33	.69	.50	.004	.001	.004
60	45.0	-7.14	15.24	7.62	-7.14	.27	.34	1.060E-03	.442	.407	4.249E-05	11.56	.83	.50	.458	.407	.457
61	45.0	-7.35	15.24	7.62	-7.35	1.17	.19	4.574E-05	.020	.016	8.277E-08	11.56	.63	.50	.020	.016	.020
62																	
63																	
64																	
65																	
66	45.0	-3.44	15.24	7.62	-3.44	.36	2.95	9.993E-04	.423	.375	3.691E-05	11.41	.82	.50	.467	.375	.464
67	45.0	-3.44	15.24	7.62	-3.44	1.19	2.95	4.468E-05	.019	.017	7.378E-08	11.41	.82	.50	.021	.017	.021
68																	
69																	
70	45.0	-3.46	15.24	7.62	-3.46	2.94	2.94	3.159E-06	.001	.001	3.712E-10	11.41	.82	.50	.001	.001	.001
71																	
72																	
73	45.0	0.00	15.24	7.62	0.00	1.15	5.39	6.614E-05	.028	.024	1.537E-07	11.00	.80	.50	.038	.024	.037
74																	
75																	
76																	
77	45.0	0.00	15.24	7.62	0.00	5.74	5.39	3.883E-06	.001	.001	3.339E-10	11.08	.80	.50	.002	.001	.002
78	45.0	3.59	15.24	7.62	3.53	.38	7.93	7.296E-04	.339	.237	1.730E-05	10.32	.75	.50	.469	.237	.463
79	45.0	3.63	15.24	7.62	3.63	1.17	7.95	8.087E-05	.034	.026	2.086E-07	10.31	.75	.50	.054	.026	.053
80																	
81																	
82																	
83	45.0	3.62	15.24	7.62	3.62	5.79	7.95	5.383E-06	.002	.002	9.245E-10	10.31	.75	.50	.004	.002	.004
84	45.0	7.33	15.24	7.62	7.33	.31	13.57	6.224E-04	.265	.174	1.072E-05	9.31	.69	.50	.684	.176	.676
85	45.0	7.34	15.24	7.62	7.35	1.09	13.59	8.255E-05	.335	.323	1.366E-07	9.30	.69	.50	.090	.023	.088
86																	
87																	
88	45.0	7.33	15.24	7.62	7.33	4.73	15.57	6.137E-07	.000	.000	1.152E-11	9.31	.69	.50	.001	.000	.001
89																	

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CFMT TEST (92), MDAC-E RSI GAPS, RUN (19) 1973 PAGE 9

MACH = 13.232 TT = 1.013E+03(K)
RX = 7.695E-06 PI = 5.165E+06(N/M2)
RE/L = 3.114E+06 PI = 4.777E+01(K)
RE/METER = 3.194E+06 RHO = 9.779E+01(KG/M3)
HO = 2.619E+07(J/KG) (RHO V)1 = 1.602E+01(KG/M2-S)
TW = 300.00 (K) GAP = .229 (CM)
STEP = 0.000 (CM) CONF =STAG

TAN/TT =0.15E FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION)
HT/HE, GAP HEATING RATIO (TO EDGE AT TILE TOP)
HTC/HEC, CONDUCTION CORRECTED HT/HE

TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE L.E.
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
2	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
3	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
4	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
5	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
6	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
7	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
8	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
9	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
10	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
11	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
12	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
13	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
14	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
15	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
16	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
17	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
18	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
19	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
20	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
21	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
22	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
23	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
24	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
25	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
26	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
27	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
28	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
29	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
30	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
31	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
32	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
33	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
34	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
35	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
36	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862
37	90.00	-13.46	7.62	-7.62	5.70	2.74	3.96E-05	.002	.002	7.84E-10	11.43	.82	.58	.002	.862	.862

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ORIGINAL PAGE IS
OF POOR QUALITY

CFMT TEST (920), MOD6-E PSI GAPS, RUN (19) 1973 PAGE 10

Cm	GAMMA (DEG)	XSURF (CM)	X2 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (BTU/FT2-S)	HT/HO	HT/HF	NSIT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
45	22.5	-10.343	14.697	7.256	-7.262	2.37	6.33	-2.244E-06	.594	.663	-7.684E-06	10.479	.78	.38	.624	-.031	-.051
44	22.5	-9.802	14.924	7.462	-7.262	1.86	6.23	-1.813E-06	.568	.623	-6.442E-06	10.479	.78	.38	.627	-.036	-.058
43	22.5	-7.09	15.24	7.462	-7.262	.33	6.21	1.134E-03	.560	.611	4.593E-05	10.481	.78	.38	.632	.395	.458
46	22.5	-7.376	14.697	7.256	-7.262	2.37	6.25	-2.276E-06	.597	.665	-7.684E-06	10.479	.78	.38	.624	-.031	-.051
47	22.5	-7.835	14.924	7.462	-7.262	1.86	6.23	-1.836E-06	.568	.623	-6.442E-06	10.479	.78	.38	.627	-.036	-.058
48	22.5	-7.09	15.24	7.462	-7.262	.33	6.21	1.134E-03	.560	.611	4.593E-05	10.481	.78	.38	.632	.395	.458
49	22.5	-7.19	15.24	7.462	-7.19	1.71	6.62	-9.602E-05	.832	.902	-1.584E-04	10.471	.78	.58	.972	-.033	-.038
42	22.5	-7.19	15.24	7.462	-7.19	1.71	6.62	-9.602E-05	.832	.902	-1.584E-04	10.471	.78	.58	.972	-.033	-.038
50	22.5	-3.446	15.24	7.462	-3.446	.36	7.11	1.292E-03	.543	.432	5.450E-05	10.557	.77	.58	.435	.432	.495
41	22.5	-3.446	15.24	7.462	-3.446	1.19	7.11	1.238E-03	.530	.431	2.881E-05	10.557	.77	.58	.436	.431	.495
51	22.5	-3.446	15.24	7.462	-3.446	5.04	7.10	4.936E-04	.080	.080	9.089E-06	10.537	.77	.58	.088	.088	.088
40	22.5	-3.446	15.24	7.462	-3.446	5.81	7.11	5.458E-07	.088	.088	9.888E-12	10.537	.77	.58	.089	.088	.088
52	22.5	0.00	15.24	7.462	0.00	1.15	7.55	1.425E-04	.248	.037	4.157E-07	10.443	.76	.56	.646	.037	.045
39	22.5	0.00	15.24	7.462	0.00	1.99	7.53	4.697E-07	.032	.002	8.436E-11	10.442	.76	.56	.002	.038	.046
53	22.5	3.559	15.24	7.462	3.559	.38	8.02	1.205E-03	.478	.364	3.894E-05	10.428	.75	.56	.474	.359	.439
38	22.5	3.559	15.24	7.462	3.559	2.42	8.02	4.335E-06	.153	.044	4.735E-07	10.428	.75	.56	.557	.356	.436
54	22.5	7.362	15.24	7.462	7.362	3.79	8.03	1.673E-04	.332	.002	2.872E-08	10.428	.75	.56	.627	.254	.309
37	22.5	7.336	15.24	7.462	7.336	1.39	8.02	1.657E-04	.348	.251	2.122E-05	10.412	.74	.56	.617	.208	.254
55	22.5	7.336	15.24	7.462	7.336	1.39	8.02	1.680E-04	.349	.036	6.479E-07	10.412	.74	.56	.694	.056	.133

CFHT TEST (92), 40AC-E RSI GAPS, RUN (2P) 1970 PAGE 11

MACH = 10.298 TT = 1.915E+03(K)
RX EOS = 1.800E+05 PI = 5.165E+06(N/M2)
RL EOS = 4.076E-12 TI = 4.786E+01(K)
RE/METER = 3.179E+06 PI = 9.794E+01(N/M2)
HO = 2.619E+07(M/M2-K) (RHO V)1 = 1.218E+01(KG/M2-S)
TW = 556.0 (K) GAP = .229 (CM)
STEP = 1.000(CM) CONF =STAG

TAW/TT =0.895 FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 OR 90 DEG) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	X3 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HI (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9																	
10																	
11																	
12	75.0	-8.63	7.62	0.00	-7.62	1.16	-1.97	1.481E-04	.033	.029	4.278E-07	11.45	.82	.58	.632	.856	.861
13	75.0	-9.22	7.62	0.00	-7.62	.33	-1.97	3.319E-04	.082	.085	6.416E-07	11.44	.82	.58	.530	.508	.558
14	75.0	-9.29	7.62	0.00	-7.62	.00	-1.97	3.434E-04	.085	.086	2.280E-04	11.44	.82	.58		.924	
15	75.0	-3.63	7.62	0.00	-3.63	3.00	-.94	3.037E-03	1.203	1.159	3.476E-04	11.53	.83	.50		1.162	
16																	
17	75.0	8.37	7.62	0.00	0.00	3.00	0.00	2.776E-03	1.173	1.368	2.924E-04	11.56	.83	.50		1.070	
18	75.0	3.24	7.62	0.00	3.54	3.00	.92	1.549E-03	1.000	.882	2.474E-04	11.55	.83	.50		.977	
19	75.0	7.27	7.62	0.00	7.27	3.00	1.80	1.385E-03	.665	.597	9.329E-05	11.53	.83	.50		.682	
20	75.0	7.97	7.62	0.00	7.62	1.44	1.97	6.311E-04	.269	.236	1.471E-05	11.50	.83	.50	.396	.268	.396
21	75.0	8.72	7.62	0.00	7.62	1.17	1.97	1.179E-04	.055	.049	5.723E-07	11.50	.83	.50	.063	.045	.074
22																	
23																	
24	75.0	13.29	7.62	0.00	7.62	3.73	1.97	-1.372E-04	.010	.010	-4.174E-08	11.50	.83	.50	.001	-.062	-.067
25	75.0	12.76	11.36	3.74	-7.62	3.70	1.66	5.542E-04	.001	.001	2.961E-09	11.52	.83	.50	.000	.021	.019
26	75.0	-12.68	11.42	3.80	-7.52	5.04	1.78	4.890E-05	.002	.001	5.771E-09	11.52	.83	.50	.001	.016	.014
27																	
28																	
29	75.0	-8.80	11.45	3.83	-7.62	1.16	1.73	-1.317E-05	.021	.018	-2.370E-06	11.51	.83	.58	-.017	-.005	-.005
30	75.0	-7.97	11.40	3.87	-7.62	.33	1.76	1.441E-03	.638	.546	7.726E-05	11.51	.83	.50	.502	.548	.495
31																	
32	75.0	-7.24	11.41	3.79	-7.24	0.00	1.73	2.912E-03	1.242	1.107	3.134E-04	11.51	.83	.58		1.106	
33	75.0	-3.71	11.54	3.92	-3.71	3.00	2.83	3.068E-03	1.296	1.151	3.465E-04	11.42	.82	.50		1.154	
34	75.0	0.83	11.67	3.96	0.00	3.00	3.82	2.683E-03	1.134	.952	2.627E-04	11.23	.81	.50		.904	
35	75.0	3.59	11.51	3.89	3.59	3.00	4.69	2.519E-03	1.158	.907	2.247E-04	11.15	.81	.50		.911	
36	75.0	7.28	11.38	3.74	7.28	3.00	5.60	1.649E-03	.569	.562	9.088E-05	10.98	.79	.50		.583	
37	75.0	7.95	11.41	3.79	7.62	1.17	5.63	7.034E-04	.296	.248	1.718E-05	10.95	.79	.50	.442	.249	.427
38	75.0	8.75	11.36	3.74	7.62	1.15	5.59	1.259E-05	.135	.029	1.653E-08	10.96	.79	.50	.052	.014	.008
39																	
40																	
41	75.0	12.64	11.29	3.67	7.62	3.34	5.51	3.949E-05	.002	.001	5.545E-09	0.98	.79	.50	.003	.014	.024
42	75.0	13.24	11.24	3.62	7.62	3.08	5.47	6.102E-05	.003	.003	1.759E-08	0.99	.79	.50	.005	.022	.037
43																	
44	75.0	-12.57	14.99	7.33	-7.62	4.91	5.11	8.527E-05	.004	.004	2.958E-08	11.06	.80	.50	.004	.031	.033
45	75.0	-11.38	14.94	7.32	-7.62	3.72	5.09	2.696E-05	.000	.000	4.154E-10	11.07	.80	.50	.000	.010	.011

CFHT TEST (92), MDAC-E RSI GAPS, RUN (21) 15 3 PAGE 13

MACH	= 13.207		TT	= 1.02[illegible]E+03(K)
RX FC6	= [illegible]		PI	= 5.163E+06(N/M2)
RL FC6	= 7.998E-12		T1	= [illegible]E+01(K)
RE/METER	= 3.149E+06		P1	= 9.784E+01(N/M2)
H	= 2.619E+00(W/M2-K)		(RHO V)1	= 1.015E+01(KG/M2-S)
TA	= 301.3 (K)		GAP	= .229 (CM)
STEP	= 0.000(CM)		CONF	=STAG

TAW/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)

TILE COORDINATES(GAMMA=0,0
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SJB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	60.0	-13.33	7.62	[illegible]	-7.62	5.70	-3.81	7.563E-05	.003	.003	2.224E-08	11.21	.81	.58	.003	.026	.029
10	60.0	-12.72	7.62	[illegible]	-7.62	5.43	-3.81	5.104E-05	.001	.001	[illegible]	11.21	.81	.50	.001	.019	.019
11	60.0	-11.34	7.62	[illegible]	-7.62	3.74	-3.81	1.432E-05	.002	.002	2.573E-09	11.21	.81	.50	.002	.005	.005
12																	
13	60.0	-8.83	7.62	[illegible]	-7.62	1.14	-3.81	3.699E-05	.046	.040	1.455E-07	11.21	.81	.50	.041	[illegible]	.019
14	60.0	[illegible]	7.62	[illegible]	-7.62	.33	-3.81	1.374E-03	.528	[illegible]	[illegible]	11.21	.81	.50	.232	.303	.328
15	60.0	-7.23	7.62	[illegible]	-7.29	[illegible]	-3.65	[illegible]	1.105	.963	[illegible]	[illegible]	.81	.50		.97[illegible]	
16	60.0	-3.63	7.62	[illegible]	-3.63	[illegible]	-1.82	[illegible]	1.27[illegible]	[illegible]	[illegible]	11.47	.81	.50		1.1[illegible]	
17	60.0	0.00	7.62	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.17[illegible]	[illegible]	[illegible]	11.56	[illegible]	.50		1.067	
18	60.0	3.54	7.62	[illegible]	3.54	[illegible]	1.77	[illegible]	1.091	.979	[illegible]	11.51	[illegible]	.50		[illegible]	
19	60.0	7.27	7.62	[illegible]	7.27	[illegible]	3.63	[illegible]	.726	.637	[illegible]	11.32	.82	.50		.639	
20	60.0	7.97	7.62	[illegible]	7.62	.41	3.81	6.622E-04	.288	.252	1.653E-05	11.29	.81	.50	.397	.24[illegible]	.304
21	60.0	8.72	7.62	[illegible]	7.62	1.17	3.81	2.699E-05	.047	.041	1.089E-07	11.20	.81	.50	.064	.010	.016
23	60.0	11.25	7.62	[illegible]	7.62	3.70	3.81	3.095E-05	.002	.002	5.087E-09	11.23	.81	.50	.003	.011	.013
25	60.0	13.29	7.62	[illegible]	7.62	5.73	3.81	1.153E-04	.001	.001	1.008E-08	11.29	.81	.50	.001	.043	.067
30	60.0	-8.83	11.45	3.53	-7.62	1.16	-.49	1.569E-04	.037	.033	5.170E-07	11.55	.83	.50	.029	.060	.051
31	60.0	-7.97	11.49	3.67	-7.62	.33	-.46	1.503E-03	.645	.585	9.175E-05	11.55	.83	.50	.537	.640	.817
32	60.0	-7.24	11.41	[illegible]	-7.29	[illegible]	-.34	[illegible]	1.273	1.1[illegible]	[illegible]	[illegible]	.83	.50		1.176	
33	60.0	-3.71	11.54	[illegible]	-3.71	[illegible]	1.54	[illegible]	1.318	1.185	3.660E-04	[illegible]	.83	.50		1.188	
34	60.0	0.03	11.57	3.95	[illegible]	[illegible]	3.42	[illegible]	1.107	.975	[illegible]	[illegible]	.82	.50		.977	
35	60.0	3.53	11.51	[illegible]	[illegible]	[illegible]	5.16	[illegible]	1.060	.893	[illegible]	11.05	.83	.50		.903	
36	60.0	7.25	11.36	[illegible]	[illegible]	[illegible]	6.88	1.096E-03	.694	.557	9.349E-05	10.63	.77	.50		.576	
37	60.0	7.97	[illegible]	3.79	7.62	.37	7.09	7.321E-04	.308	.245	1.779E-05	10.57	.77	.50	.444	.247	.428
38	60.0	8.73	[illegible]	3.74	7.62	1.15	7.35	8.358E-05	.044	.035	2.927E-07	13.56	.77	.50	.064	.028	.049
41	60.1	12.64	11.29	3.67	7.62	5.34	6.99	-7.509E-05	.001	.001	-4.788E-09	13.60	.77	.50	.001	-.025	-.344
43	60.0	-13.37	14.97	[illegible]	-7.62	5.70	2.55	-1.270E-04	.000	.000	-1.754E-09	11.49	.82	.50	.000	-.048	-.048

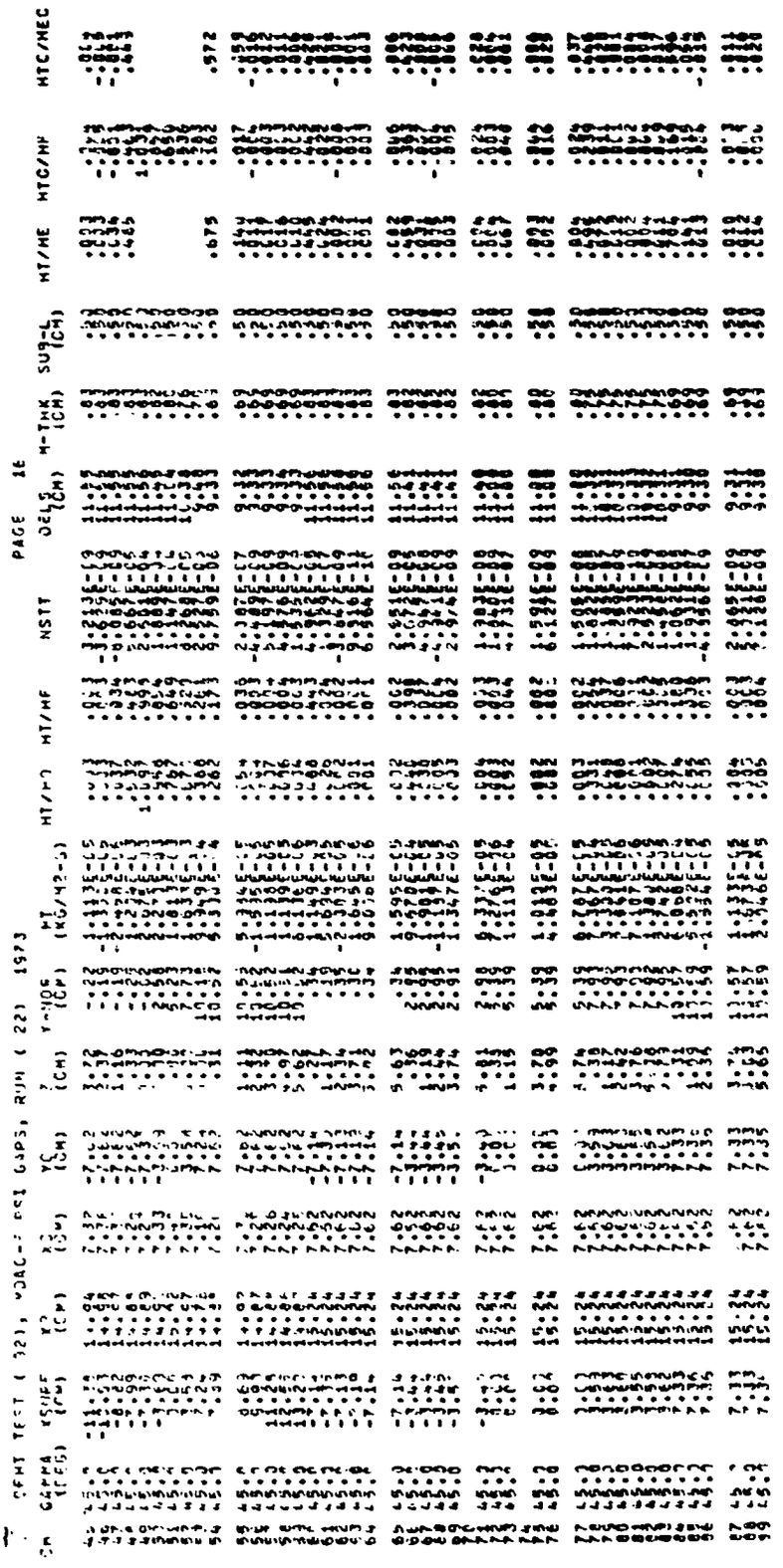
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ORIGINAL PAGE IS OF POOR QUALITY

CFHT TEST (92), MDAC-E RSI CAPS, RUN (21) 1973 PAGE 14

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	ZT (KG/M2-S)	HT/HO	HT/HF	NSIT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
45																	
46																	
47	60.0	-8.02	14.97	7.35	-7.62	1.16	2.69	6.223E-05	.633	.030	4.937E-07	11.48	.82	.50	.130	.025	.025
48	60.0	-7.99	14.88	7.26	-7.42	.33	2.43	1.262E-03	.532	.475	5.933E-05	11.46	.82	.50	.489	.478	.478
49	60.0	-7.33	14.89	7.27	[illegible]	.70	2.64	2.624E-03	1.089	.971	2.531E-04	11.44	.82	.53		1.061	
50	60.0	-3.69	14.95	7.33	-7.69	1.00	[illegible]	2.455E-03	1.030	.893	2.171E-04	11.18	.81	.50		.895	
51	60.0	[illegible]	15.32	7.40	[illegible]	1.00	8.41	2.034E-03	.860	.702	1.414E-04	10.76	.78	.53		.703	
52	60.0	3.53	14.97	[illegible]	3.59	1.00	8.18	1.458E-03	.772	.583	1.078E-04	10.24	.75	.50		.597	
53	60.0	7.24	14.79	7.16	7.24	.33	3.92	1.013E-03	.294	.278	2.697E-05	9.63	.71	.50		.293	
54	60.0	7.29	14.83	7.26	7.62	.11	13.13	5.826E-04	.263	.177	1.323E-05	9.51	.73	.50	.650	.166	.588
55	60.0	8.63	14.92	[illegible]	7.62	1.11	13.13	8.429E-05	.065	.044	3.549E-07	9.50	.70	.50	.155	.025	.082
56	60.0	9.97	14.97	7.23	7.62	2.32	13.09	-1.946E-05	.000	.000	-2.241E-10	9.51	.72	.50	.000	-.006	-.019
57																	
58	60.0	12.55	14.85	7.24	7.62	4.97	13.08	3.323E-05	.032	[illegible]	3.777E-09	9.52	.73	.50	.004	.039	.030
59	60.0	13.27	14.87	7.25	7.62	5.62	10.09	4.078E-05	.031	[illegible]	3.221E-09	9.52	.74	.50	.003	.012	.048
60	60.0	-7.14	15.24	7.62	-7.14	.27	3.03	1.134E-03	.505	.447	5.291E-05	11.46	.82	.50	.465	.458	.447
61	60.0	-7.33	13.24	7.62	-7.33	1.17	2.93	8.359E-05	.036	.032	2.533E-07	11.41	.82	.50	.033	.030	.030
62																	
63	60.0	-7.19	15.24	7.62	-7.19	3.71	3.33	1.648E-05	.002	.001	1.341E-09	11.48	.82	.50	.001	.004	.004
64	60.0	-7.14	15.24	7.62	-7.14	5.32	3.03	5.897E-05	.001	.001	6.567E-09	11.40	.82	.50	.001	.022	.022
65	60.0	-7.14	15.24	7.62	-7.14	[illegible]	3.03	7.585E-05	.003	.000	1.970E-09	11.40	.82	.50	.000	.028	.028
66	60.0	-3.44	15.24	7.62	-3.44	.36	4.88	1.145E-03	.485	.414	4.692E-05	11.11	.80	.50	.463	.414	.463
67	60.0	-3.44	15.24	7.62	-3.44	1.19	4.88	1.060E-04	.045	.038	4.321E-07	11.11	.80	.50	.043	.038	.043
68																	
69																	
70	60.0	-3.45	15.24	7.62	-3.46	5.04	4.87	4.882E-14	.000	.000	8.538E-26	11.11	.80	.50	.000	.000	.000
71	60.0	[illegible]	15.24	7.62	[illegible]	3.01	4.90	1.034E-05	.004	.004	3.612E-09	11.10	.80	.50	.004	.004	.004
72																	
73	60.0	[illegible]	15.24	7.62	[illegible]	1.15	6.69	1.125E-04	.058	.040	4.506E-07	10.71	.78	.50	.058	.039	.055
74																	
75	60.0	[illegible]	15.24	7.62	[illegible]	3.78	6.67	1.153E-05	.000	.000	1.603E-10	10.71	.78	.50	.000	.004	.006
76	60.0	[illegible]	15.24	7.62	[illegible]	4.79	6.67	4.385E-05	[illegible]	.003	3.783E-10	10.71	.78	.50	.003	.012	.014
77	60.0	3.00	15.24	7.62	[illegible]	3.74	6.60	7.187E-05	.003	.003	2.384E-08	10.71	.78	.50	.002	.023	.026
78	60.0	3.59	15.24	7.62	3.59	.18	8.39	8.849E-04	.372	.277	2.440E-05	10.16	.74	.50	.465	.288	.469
79	60.0	3.63	15.24	7.62	3.63	1.47	9.41	1.3 2E-04	.059	.044	5.866E-07	10.18	.74	.50	.077	.042	.071
80																	
81																	
82																	
83	60.0	3.62	15.24	7.62	3.62	5.79	9.41	-9.472E-05	.001	.003	-4.617E-09	10.16	.74	.50	.001	-.030	-.050
84	60.0	7.33	15.24	7.62	7.33	.31	13.26	6.837E-04	.273	.182	1.174E-05	9.44	.70	.50	.693	.164	.673
85	60.0	7.36	15.24	7.62	7.35	1.09	13.28	7.563E-05	.058	.039	2.899E-07	9.44	.70	.50	.147	.021	.073
86																	
87																	
88	60.0	7.33	15.24	7.62	7.33	3.03	13.20	4.165E-05	.002	.001	5.320E-09	9.44	.75	.50	.015	.012	.020
89	60.0	7.35	15.24	7.62	7.35	5.66	13.27	6.224E-04	.004	.003	1.324E-08	9.44	.75	.50	.013	.018	.060

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CFHT TEST (92), MDAC-E RSI GAPS, RUN (36) 1973 PAGE 17

MACH = 10.290
RX E06 = 7.886E-02
RL E06 = [illegible]E-12
RE/METER = 3.131E+16
HO = 2.619E+3F(W/M2-K)
TW = 298.2 (K)
STEP = (.000(CM)

TT = 1.011E+03(K)
PI = 5.149E+06(N/M2)
T1 = 4.768E+01(K)
P1 = 9.768E+01(N/M2)
(RHO V)1 = 1.018E+01(KG/M2-S)
GAP = .457 (CM)
CONF = STAG

TAW/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)

TILE COORDINATES(GAMMA=0.0
X9 = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

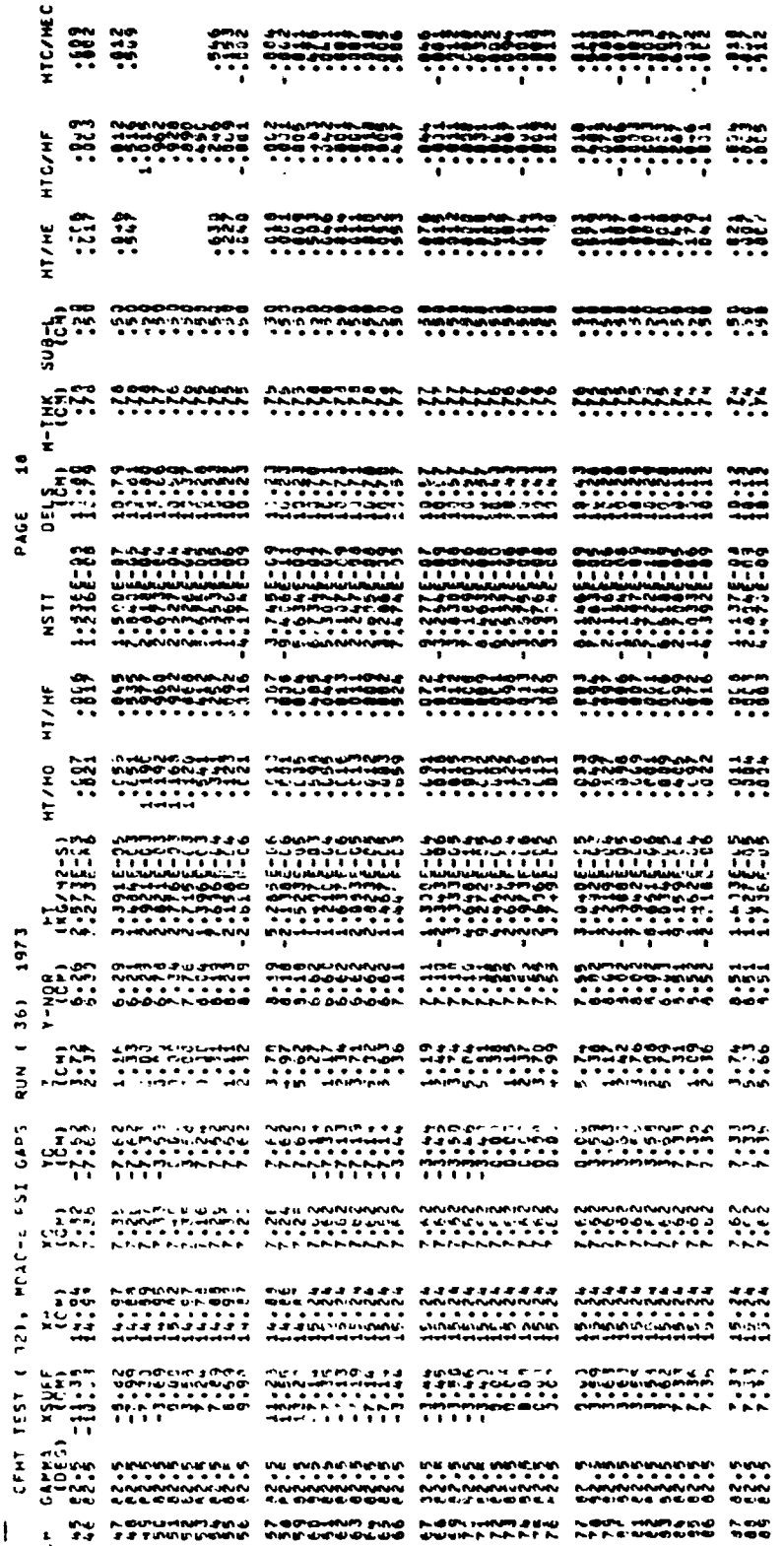
SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	X9 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	82.5	-13.33	7.62	0.00	-7.62	5.70	-.99	2.294E-06	.008	.007	1.637E-09	11.52	.03	.50	.006	.001	.001
10	82.5	-12.72	7.62	0.00	-7.62	5.03	-.99	5.728E-06	.009	.008	5.531E-09	11.52	.03	.50	.007	.003	.002
11	82.5	[illegible]	7.62	0.00	-7.62	3.74	-.99	1.967E-05	.013	.012	2.242E-08	11.52	.03	.50	.010	.004	.006
12	82.5	-10.05	7.62	0.00	-7.62	2.36	-.99	-3.198E-05	.006	.005	-1.696E-08	11.52	.03	.50	.005	-.012	-.010
13	82.5	-8.63	7.62	0.00	-7.62	1.14	-.99	1.566E-04	.102	.093	1.431E-06	11.52	.03	.50	.074	.060	.051
14	82.5	-7.92	7.62	0.00	-7.62	.33	-.99	1.225E-03	.828	.757	1.439E-04	11.53	.03	.50	.641	.738	.618
15	82.5	-7.29	7.62	0.00	-7.29	0.30	-.93	3.114E-03	1.300	1.182	3.634E-04	11.53	.03	.50		1.191	
16	82.5	-3.63	7.62	0.00	-3.63	0.00	-.47	3.217E-03	1.361	1.233	3.918E-04	11.55	.03	.50		1.235	
17	82.5	0.00	7.62	0.00	0.00	0.00	0.00	2.893E-03	1.218	1.109	3.135E-04	11.56	.03	.50		1.103	
18	82.5	3.54	7.62	0.00	3.54	0.00	.49	2.338E-03	1.124	1.018	2.614E-04	11.56	.03	.50		.997	
19	82.5	7.27	7.62	0.00	7.27	0.30	.99	1.372E-03	.633	.572	9.484E-05	11.58	.03	.50		.574	
20	82.5	7.97	7.62	0.00	7.62	[illegible]	.99	4.373E-04	.204	.185	7.966E-06	11.58	.03	.50	.323	.167	.291
21	82.5	8.77	7.62	0.00	7.62	1.15	.99	6.336E-05	.064	.058	3.756E-07	11.55	.03	.50	.101	.045	.054
22	82.5	9.94	7.62	0.00	7.62	[illegible]	.99	-2.361E-05	.011	.010	-1.935E-08	11.55	.03	.50	.017	-.010	-.014
23	82.5	11.25	7.62	0.00	7.62	3.70	.99	1.177E-05	.008	.004	4.108E-09	11.55	.03	.50	.010	.005	.008
24	82.5	12.52	7.62	0.00	7.62	5.02	.99	2.472E-05	.001	.001	2.037E-09	11.55	.03	.50	.001	.009	.016
25	82.5	13.28	7.62	0.00	7.62	5.77	.99	3.672E-05	.002	.002	7.952E-09	11.55	.03	.50	.004	.015	.026
26	82.5	-13.35	11.38	3.76	-7.62	5.73	2.71	1.693E-05	.006	.006	9.373E-09	11.43	.02	.50	.004	.006	.005
27	82.5	-12.60	11.52	3.85	-7.62	5.04	2.71	7.242E-06	.003	.003	2.758E-09	11.43	.02	.50	.003	.003	.002
28	82.5	-11.35	11.38	3.76	-7.62	3.72	2.71	-4.389E-07	.003	.003	-1.385E-10	11.43	.02	.50	.002	-.010	-.001
29	82.5	[illegible]	11.41	3.85	-7.62	2.44	2.79	7.793E-06	.021	.019	1.498E-08	11.42	.02	.50	.015	.003	.007
30	82.5	-8.61	11.45	[illegible]	-7.62	1.16	2.83	5.931E-05	.063	.056	3.264E-07	11.42	.02	.50	.043	.022	.017
31	82.5	-7.07	11.45	3.83	-7.62	.35	2.84	1.893E-03	.823	.731	1.366E-04	11.42	.02	.50	.571	.712	.545
32	82.5	-7.24	11.41	3.70	-7.24	0.07	2.81	3.473E-03	1.441	1.284	4.791E-04	11.42	.02	.50		1.347	
33	82.5	-3.71	11.44	3.82	-3.71	0.00	3.42	3.141E-03	1.327	1.168	3.623E-04	11.35	.02	.50		1.171	
34	82.5	0.00	11.57	3.95	0.00	0.00	3.92	2.770E-03	1.171	1.027	2.797E-04	11.28	.01	.50		1.024	
35	82.5	3.59	11.51	3.09	3.59	0.00	4.32	2.611E-03	1.101	.953	2.456E-04	11.21	.01	.50		.956	
36	82.5	7.23	11.34	3.74	7.23	0.00	4.66	1.320E-03	.649	.557	8.909E-05	11.15	.01	.50		.589	
37	82.5	7.97	11.31	3.79	7.62	.37	4.75	5.633E-04	.262	.225	1.249E-05	11.13	.01	.50	.404	.204	.347
38	82.5	8.74	11.38	3.74	7.62	1.15	4.77	7.0[illegible]E-05	.074	.063	4.736E-07	11.14	.01	.50	.113	.028	.047
39	82.5	9.95	11.42	3.60	7.62	2.32	4.76	-2.836E-05	.011	.010	-2.549E-08	11.13	.00	.50	.017	-.010	-.016
40	82.5	11.22	11.42	3.60	7.62	3.52	4.76	1.732E-05	.004	.004	6.132E-09	11.13	.00	.50	.007	.006	.010
41	82.5	12.64	11.29	3.57	7.62	5.04	4.63	4.084E-06	.004	.003	1.325E-09	11.16	.01	.50	.006	.003	.002
42	82.5	13.29	11.24	3.62	7.62	5.68	4.50	3.450E-05	.003	.002	6.115E-09	11.16	.01	.50	.004	.013	.021
43																	
44	82.5	-12.57	14.95	[illegible]	-7.62	4.91	6.27	5.039E-05	.007	.001	7.737E-09	17.00	.78	.50	.001	.023	.019

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CFDT TEST (421, MDAC-E RSI GAPS, RUN (37) 1973 PAGE 19

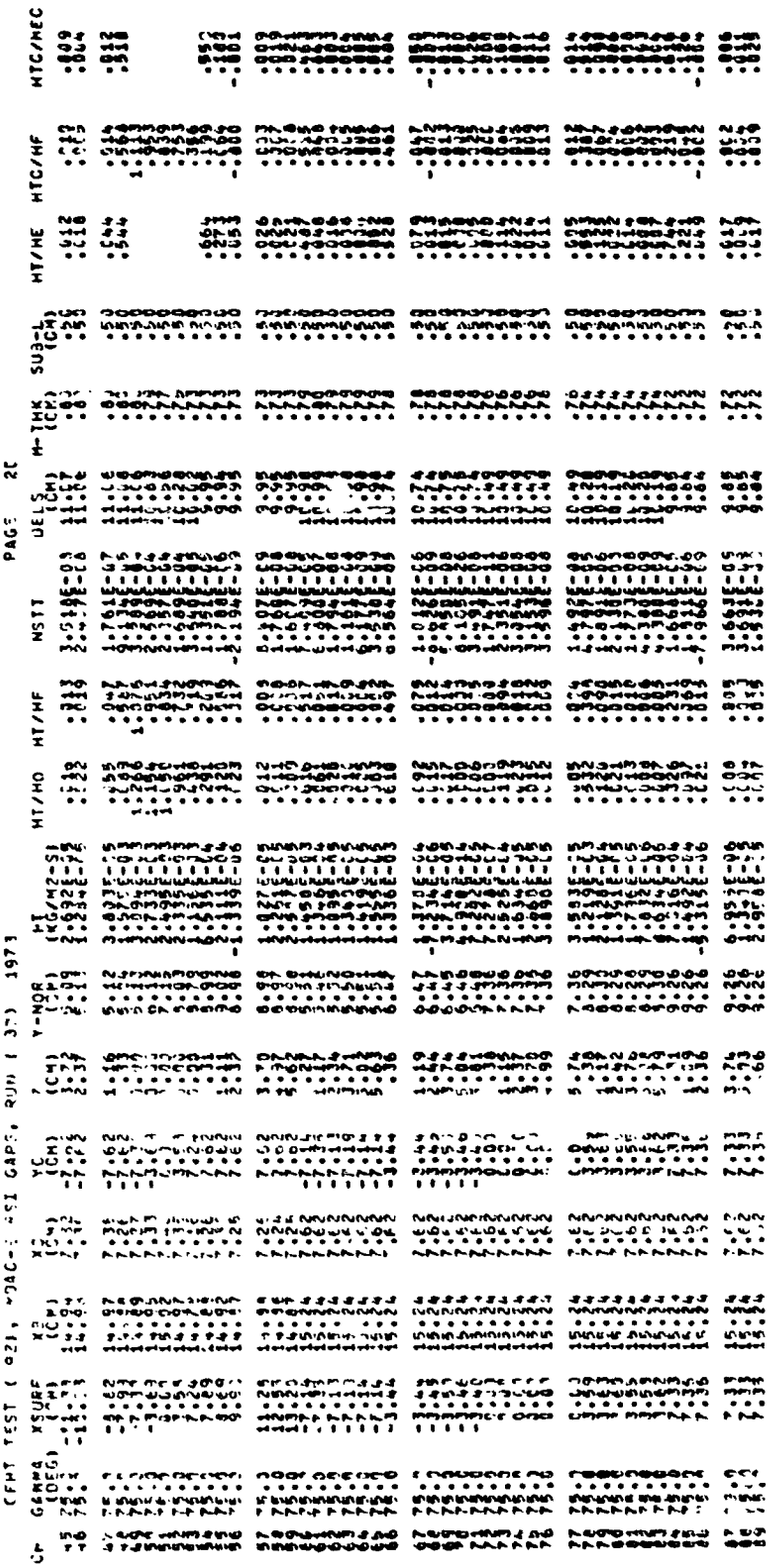
MACH = 14.290 TT = 1.023E+03(K)
RE/FOOT = 4.36E-02 PI = 5.155E+01(N/M2)
RE/METER = 1.43E-02 TI = 9.774E+01(K)
RHO = 3.861E-06(KG/M2-K) (RHO V)I = 1.09E-01(KG/M2-S)
TWD = 2.85E+01(K) GAP = 1.09 (CM)
STEP = 0.01(CM) CONF =STAC

TANZTT =0.48 FCR HTXHD TILE COORDINATES(GAMMA=0)
XSURF =SWEAT DISTANCE X9 = X-COOR. FROM TILE LEFT
(FROM ORIGIN) XC = X-COOR. FROM TILE CENTER
HTC/HF, GAP HEATING RATIO TO FOR ALL TILE TOP YC =Y-COOR. FROM TILE CENTER
HTC/HEC, CONDUCTION CORRECTED HT/HE RATIOED TO FLAT PLATE

SPECIFIC HEAT CORRECTED

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	PT (KG/M2-SE	HT/HD	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	0.	1.35	1.35	0.	0.	5.08	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	3.96	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	2.93	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	1.90	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	0.	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-1.09	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-2.13	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-3.15	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-4.18	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-5.21	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-6.23	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-7.26	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-8.29	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-9.31	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-10.34	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-11.37	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-12.40	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-13.42	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-14.45	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-15.48	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-16.51	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-17.53	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-18.56	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-19.59	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-20.62	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-21.64	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-22.67	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-23.70	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-24.73	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-25.75	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-26.78	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-27.81	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-28.84	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-29.86	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-30.89	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-31.92	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-32.95	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-33.97	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824
9	0.	1.35	1.35	0.	0.	-35.00	0.	1.23E-03	.1226	.0010	1.67E-07	.445	.063	.000	.824	1.000	.824

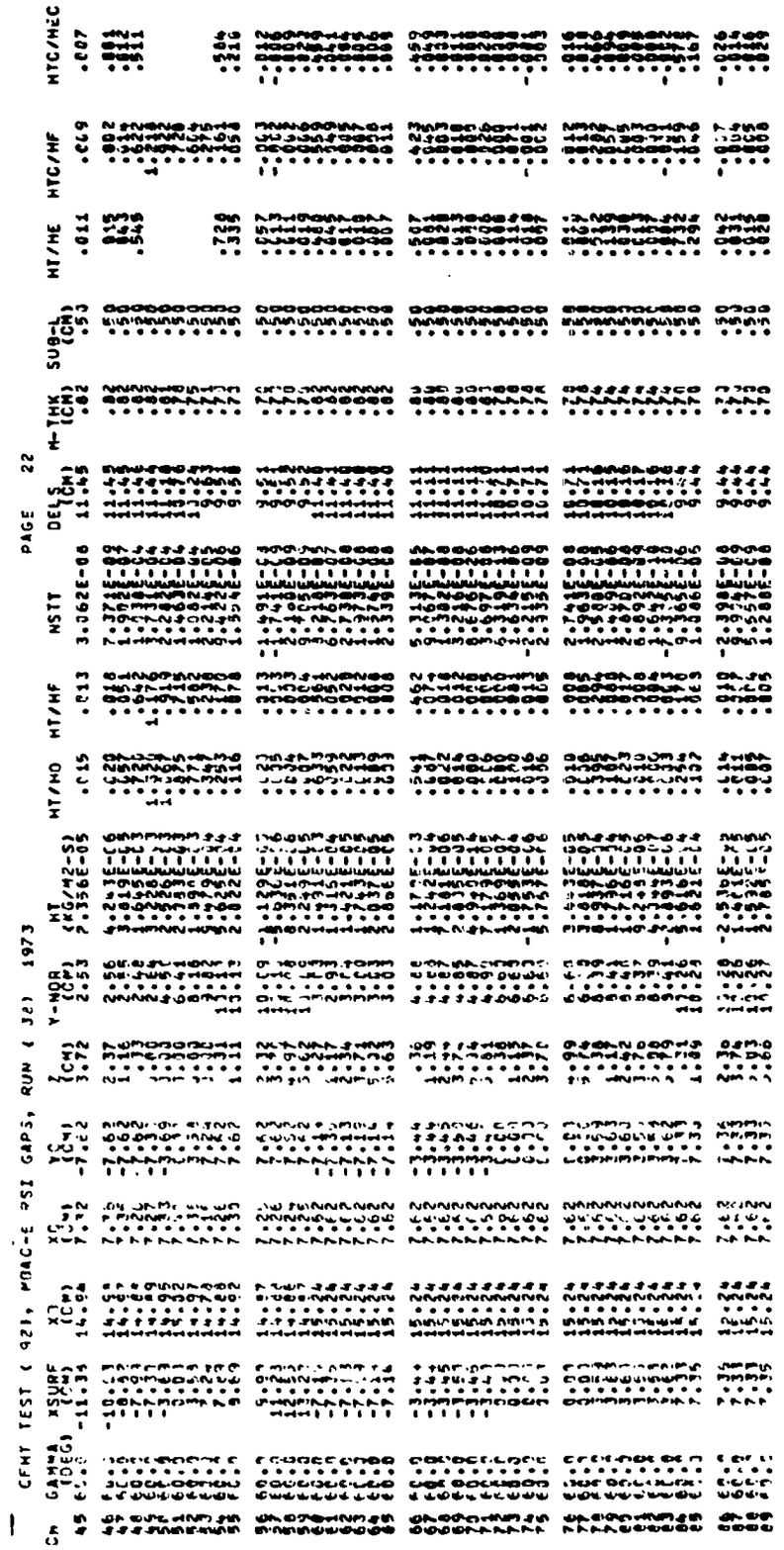
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SPECIFIC HEAT CORRECTED

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CFMT TEST (92), PDAG-2 RSI GAPS, RUN (33) 1973 PAGE 23

PACH = 1.200
RBX = 7.933E-02
RBZ = 8.150E-02
RE/METER = 9.268E+06
HO = 2.614E+07 (W/M2-K)
TW = 294.444 (K)
STEP = 1.270 (CM)

TAW/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) OR 90 DEG.)
HT/HF = GAP HEATING RATIOED TO EDGE AT TILE
HTC/HF= GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HT/HE, HTC/HEC, CONDUCTION CORRECTED HT/HE

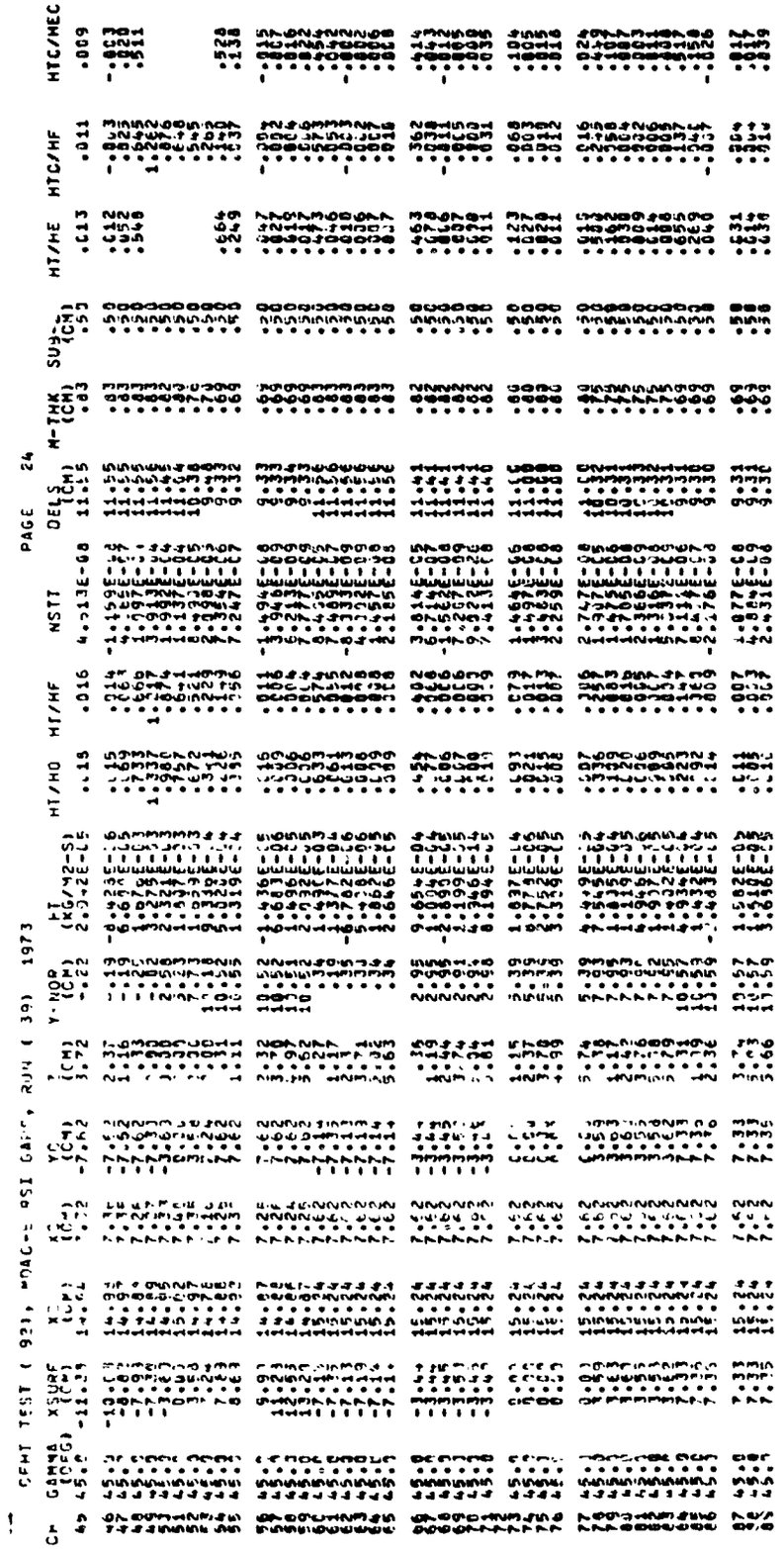
TT = 1.811E+03(K)
PT = 5.115E+04(N/M2)
TI = 4.767E+02(K)
PI = 9.413E+01(N/M2)
(RHO V)I = 1.213E+01(KG/M2-S)
GAP = .457 (CM)
CONF = STAG

TILE COORDINATES(GAMMA=0.0
X9 = X-COOR. FROM TILE LEE
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

C#	GAMMA (DEG)	XSURF (CM)	X9 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SU 1-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	0.0	-1.397E+00	-1.397E+00	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
2	0.0	-1.270E+00	-1.270E+00	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
3	0.0	-1.143E+00	-1.143E+00	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
4	0.0	-1.016E+00	-1.016E+00	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
5	0.0	-8.890E-01	-8.890E-01	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
6	0.0	-7.620E-01	-7.620E-01	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
7	0.0	-6.350E-01	-6.350E-01	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
8	0.0	-5.080E-01	-5.080E-01	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
9	0.0	-3.810E-01	-3.810E-01	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
10	0.0	-2.540E-01	-2.540E-01	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
11	0.0	-1.270E-01	-1.270E-01	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
12	0.0	0.000E+00	0.000E+00	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
13	0.0	1.270E-01	1.270E-01	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
14	0.0	2.540E-01	2.540E-01	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
15	0.0	3.810E-01	3.810E-01	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
16	0.0	5.080E-01	5.080E-01	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
17	0.0	6.350E-01	6.350E-01	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
18	0.0	7.620E-01	7.620E-01	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
19	0.0	8.890E-01	8.890E-01	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
20	0.0	1.016E+00	1.016E+00	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
21	0.0	1.143E+00	1.143E+00	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
22	0.0	1.270E+00	1.270E+00	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00
23	0.0	1.397E+00	1.397E+00	0.000E+00	-7.620E+00	0.000E+00	0.000E+00	1.213E+01	1.000E+00	1.000E+00	6.227E+03	1.143E+00	7.620E-01	5.588E+00	1.000E+00	1.000E+00	1.000E+00

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CFNT TEST (92), MDAC-E RST APS, RUN (53) 1973 PAGE 25

MACH = 11.293
RX E06 = 9.059E-02
RL E06 = 6.292E-02
RE/METER = 3.264E+06
HO = 2.619E+06 (W/M2-K)
TW = 297.3 (K)
STEP = .254 (CM)

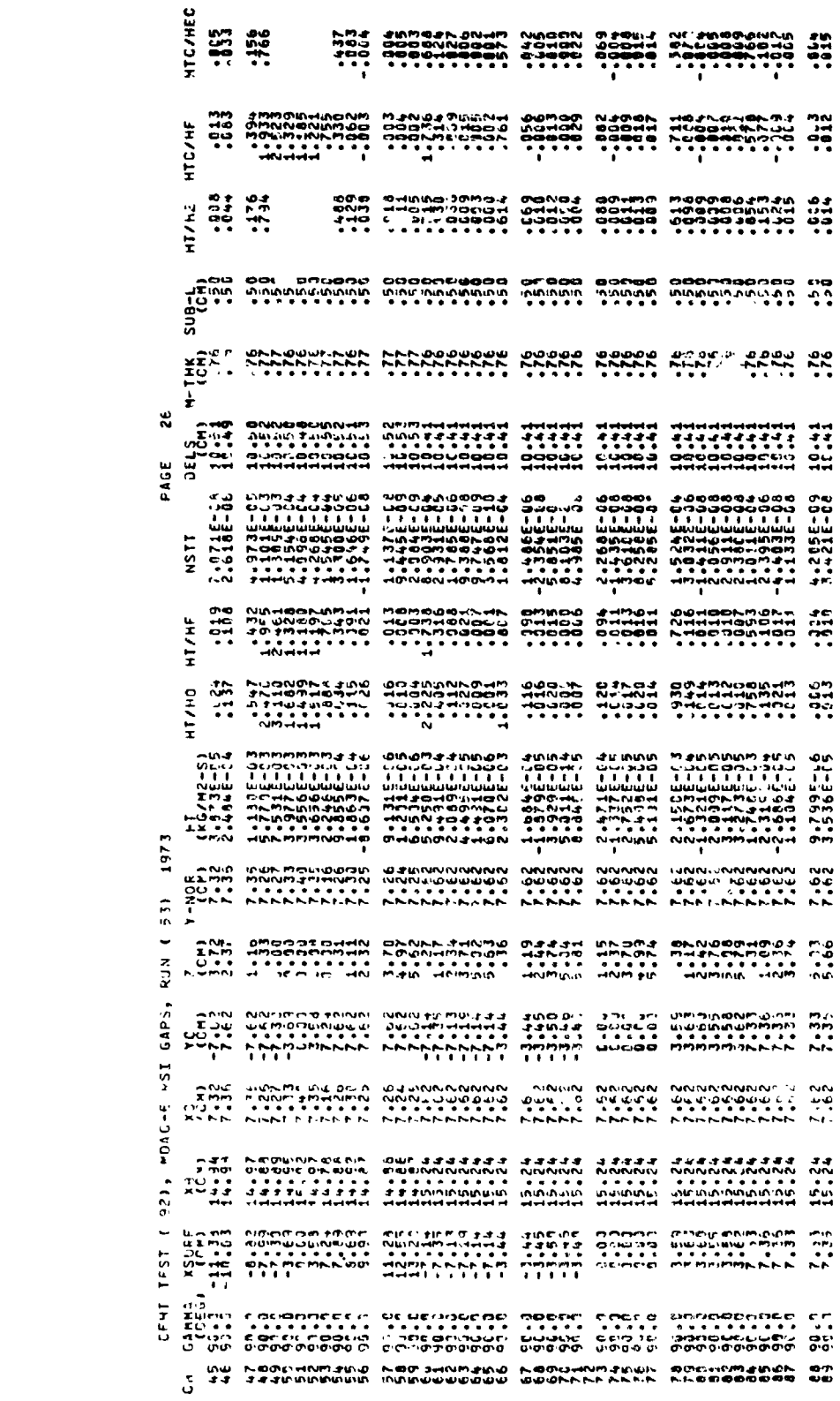
TT = 1.003E+03 (K)
PI = 5.179E+06 (N/M2)
T1 = 4.724E+01 (K)
P1 = 9.833E+01 (N/M2)
(RHO V)1 = 1.030E+01 (KG/M2-S)
GAP = .457 (CM)
CONF = STAG

TAW/TT = 0.895 FOR HT/HO
XSURF = SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)
TILE COORDINATES(GAMMA=0.0(
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER
SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HFC
9	90.0	-13.39	7.62	0.00	-7.62	5.70	0.00	1.924E-07	.012	.011	2.017E-10	11.56	.83	.50	.008	.003	.000
10	90.0	-12.72	7.62	0.00	-7.62	5.03	0.00	1.824E-05	.015	.014	1.346E-08	11.56	.83	.50	.010	.004	.003
11	90.0	-11.34	7.62	0.00	-7.62	3.74	0.00	3.331E-05	.022	.020	6.565E-08	11.56	.83	.50	.015	.013	.010
12	90.0	-10.05	7.62	0.00	-7.62	2.36	0.00	7.885E-05	.055	.050	3.875E-07	11.56	.83	.50	.038	.030	.023
13	90.0	-8.83	7.62	0.00	-7.62	1.14	0.00	4.635E-04	.228	.208	9.397E-06	11.56	.83	.50	.155	.179	.133
14	90.0	-8.02	7.62	0.00	-7.62	.33	0.00	2.438E-03	1.050	.955	2.265E-04	11.56	.83	.50	.712	.936	.699
15	90.0	-7.29	7.62	0.00	-7.29	0.00	0.00	3.475E-03	1.473	1.341	4.547E-04	11.56	.83	.50		1.339	
16	90.0	-3.63	7.62	0.00	-3.63	0.00	0.00	3.165E-03	1.338	1.218	3.763E-04	11.56	.83	.50		1.219	
17	90.0	0.00	7.62	0.00	0.00	0.00	0.00	2.831E-03	1.234	1.096	3.028E-04	11.56	.83	.50		1.091	
18	90.0	3.54	7.62	0.00	3.54	0.00	0.00	2.618E-03	1.132	1.031	2.633E-04	11.56	.83	.50		1.009	
19	90.0	7.27	7.62	0.00	7.27	0.00	0.00	1.532E-03	.678	.617	9.224E-05	11.56	.83	.50		.590	
20																	
21	90.0	8.72	7.62	0.00	7.62	1.17	0.00	1.343E-04	.078	.071	9.325E-07	11.56	.83	.50	.115	.052	.008
22	90.0	9.94	7.62	0.00	7.62	2.39	0.00	-2.057E-06	.020	.018	-3.640E-09	11.56	.83	.50	.029	-.001	-.001
23	90.0	11.25	7.62	0.00	7.62	3.70	0.00	2.301E-05	.014	.013	2.819E-08	11.56	.83	.50	.020	.009	.015
24	90.0	12.62	7.62	0.00	7.62	5.07	0.00	4.062E-05	.009	.008	3.367E-08	11.56	.83	.50	.014	.016	.027
25	90.0	13.29	7.62	0.00	7.62	5.73	0.00	6.229E-05	.013	.012	7.040E-08	11.56	.83	.50	.019	.024	.041
26	90.0	-13.35	11.38	3.76	-7.62	5.70	3.76	1.826E-05	.008	.007	1.27[illegible]E-08	11.30	.81	.50	.003	.007	.002
27	90.0	-12.65	11.42	3.80	-7.62	5.04	3.83	1.433E-05	.009	.008	1.139E-08	11.29	.81	.50	.003	.066	.002
28	90.0	-11.36	11.38	3.76	-7.62	3.72	3.76	4.207E-05	.025	.022	8.900E-08	11.30	.81	.50	.008	.016	.006
29	90.0	-10.09	11.43	3.81	-7.62	2.44	3.81	1.890E-04	.111	.097	1.790E-06	11.29	.81	.50	.035	.070	.025
30	90.0	-8.87	11.45	3.83	-7.62	1.16	3.83	1.171E-03	.534	.467	5.334E-05	11.29	.81	.50	.171	.434	.157
31	90.0	-7.97	11.49	3.87	-7.62	.33	3.87	5.927E-03	2.530	2.211	1.279E-03	11.28	.81	.50	.811	2.193	.792
32	90.0	-7.24	11.41	3.79	-7.24	0.00	3.79	7.475E-03	3.118	2.730	1.991E-03	11.30	.81	.50		2.770	
33	90.0	-3.71	11.54	3.92	-3.71	0.00	3.92	3.674E-03	1.555	1.357	4.864E-04	11.28	.81	.50		1.358	
34	90.0	0.00	11.57	3.95	0.00	0.00	3.95	3.094E-03	1.271	1.109	3.250E-04	11.27	.81	.50		1.109	
35	90.0	3.59	11.51	3.89	3.59	0.00	3.89	2.773E-03	1.172	1.024	[illegible]71E-04	11.28	.81	.50		1.026	
36	90.0	7.29	11.36	3.74	7.29	0.00	3.74	1.735E-03	.694	.608	1.030E-04	11.30	.81	.50		.644	
37	90.0	7.97	11.41	3.79	7.62	.37	3.79	3.010E-04	.183	.160	5.960E-06	11.30	.81	.50	.264	.141	.219
38	90.0	8.75	11.36	3.74	7.62	1.15	3.74	1.113E-04	.082	.072	7.080E-07	11.30	.81	.50	.118	.031	.058
39	90.0	9.95	11.42	3.80	7.62	2.35	3.80	-5.378E-05	.009	.008	-4.[illegible]79E-0[illegible]	11.29	.81	.50	.014	-.019	-.029
40	90.0	11.22	11.42	3.80	7.62	3.52	3.80	3.076E-05	.015	.013	4.[illegible]42E-0[illegible]	11.30	.81	.50	.022	.014	.021
41	90.0	12.64	11.29	3.67	7.62	5.04	3.67	1.392E-05	.012	.011	[illegible].472E-08	11.31	.82	.50	.013	.005	.004
42	90.0	13.29	11.24	3.62	7.62	5.68	3.62	1.251E-05	.005	.004	[illegible].725E-09	11.32	.82	.50	.007	.005	.007
43	90.0	-13.37	14.97	7.35	-7.62	5.72	7.35	1.134E-05	.005	.004	4.[illegible]6E-09	10.50	.76	.50	.002	.004	.002
44	90.0	-13.57	14.95	7.33	-7.62	4.91	7.33	1.304E-05	.009	.007	8.704E-[illegible]	10.50	.76	.50	.033	.004	.002

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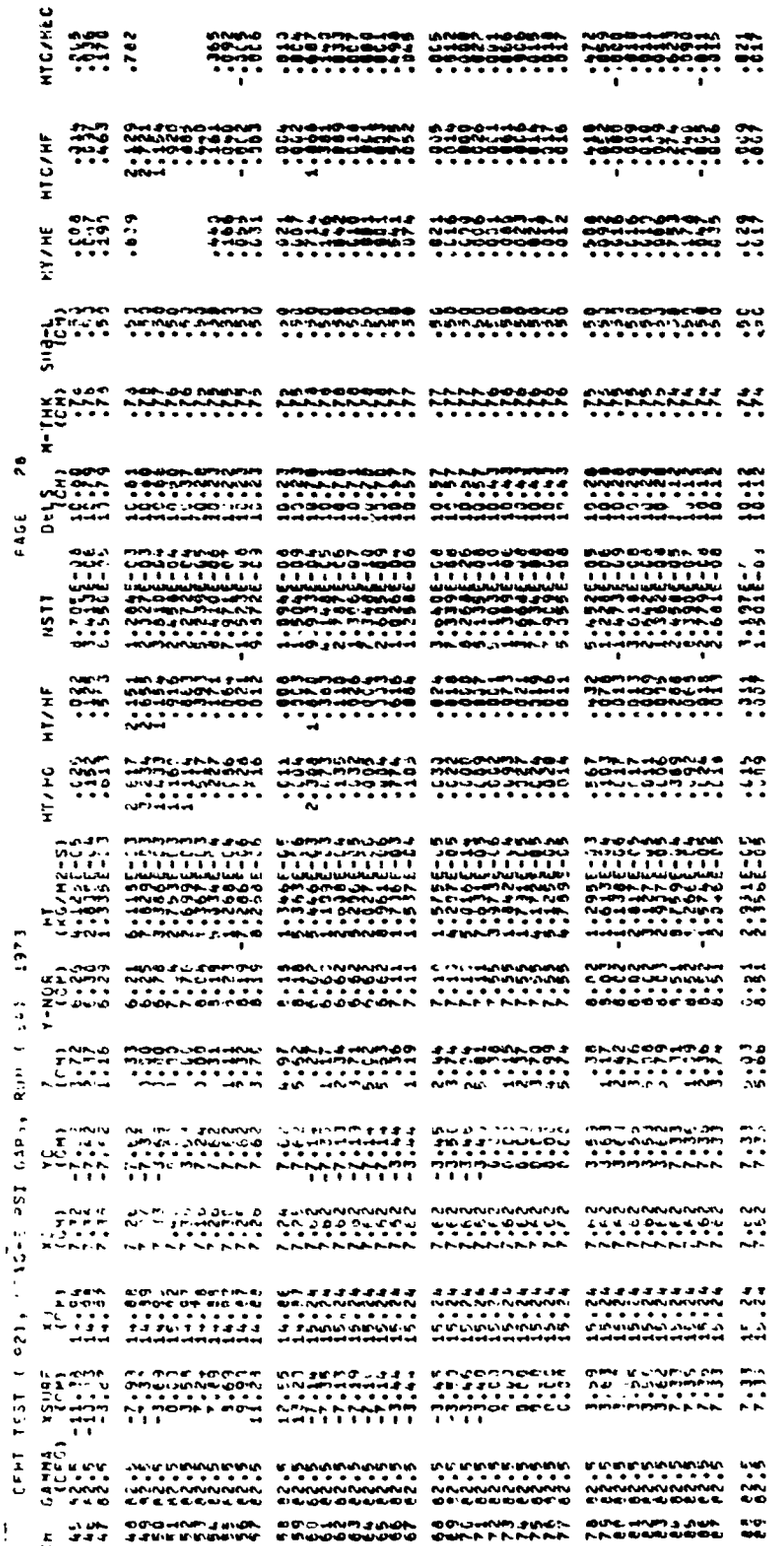


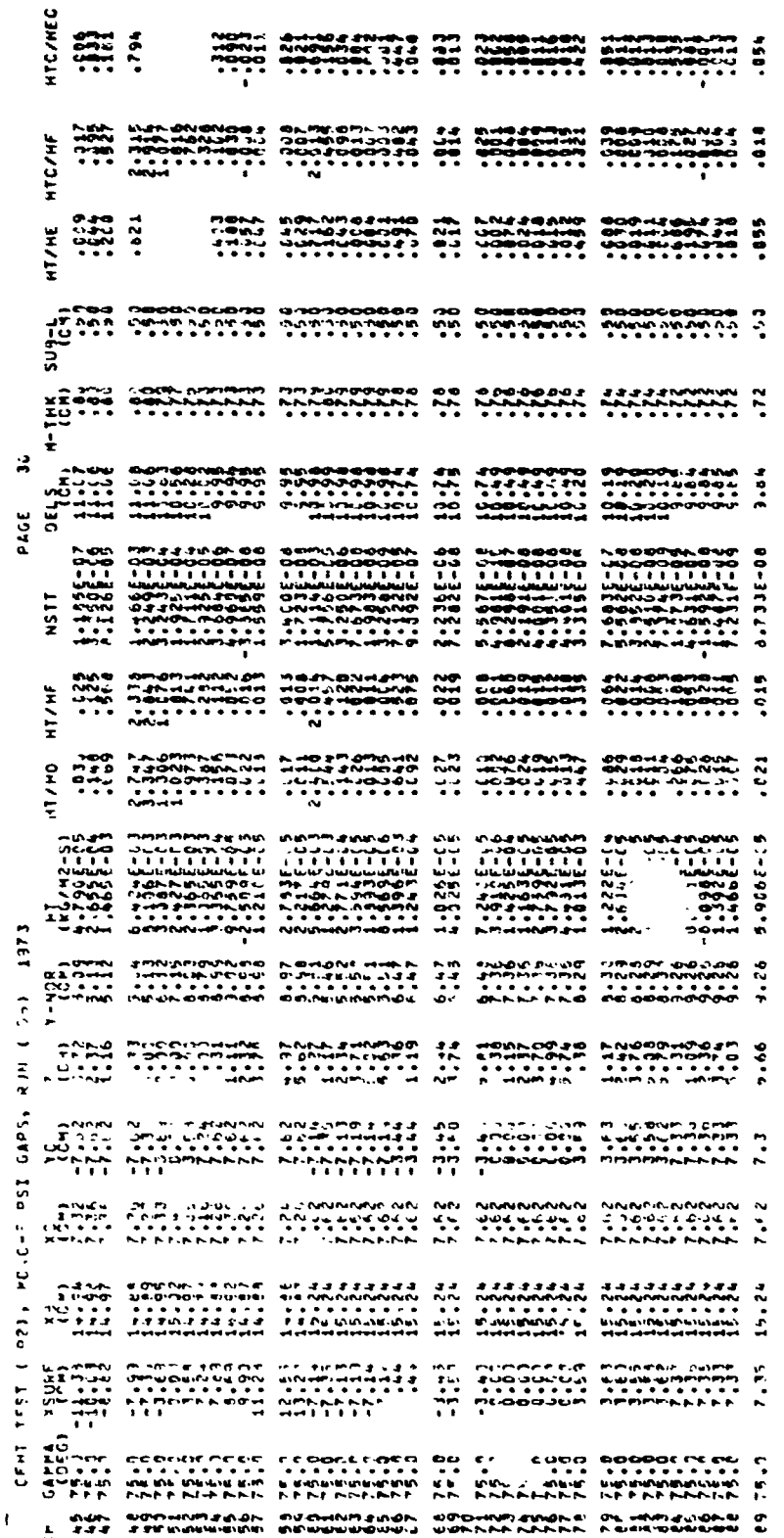
CFHT TEST (92), MDAC-2 RSI GAPS, RUN (54) 1973 PAGE 27

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MACH      = 10.239                 TT        = 1.602E+03(K)
RX FPA    = 8.577E-02              PT        = 5.179E+06(N/M2)
RL ECG    = 8.301E-02              TI        = 4.721E+01(K)
RE/METER  = 3.268E+06              PI        = 9.843E+01(N/M2)
HO        = 2.619E+00(W/M2-K)      (RHO V)1  = 1.033E+01(KG/M2-S)
TW        = 297.3 (K)              GAP       = .457 (CM)
STEP      = .254(CM)               CONF      =STAG

TAW/TT =0.995 FOR HT/HO            TILE COORDINATES(GAMMA=0.0
XSURF  =SURFACE DISTANCE             X0 = X-COOR. FROM TILE L.E.
        (FLOW DIRECTION)             XC = X-COOR. FROM TILE CENTER
        (0.0 OR 90 DEG )             YC = Y-COOR. FROM TILE CENTER      SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF,GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE
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TP	GAMMA (DEG)	XSURF (CM)	X0 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	H-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	82.5	-13.39	7.62	.00	-7.62	2.70	-.99	4.729E-06	.015	.013	6.206E-09	11.52	.83	.50	.007	.012	.007
10	82.5	-12.77	7.62	.00	-7.62	5.03	-.99	8.435E-06	.014	.013	6.665E-09	11.52	.83	.50	.006	.013	.006
11	82.5	-11.34	7.62	[illegible]	-7.62	3.74	-.99	3.156E-05	.022	.020	5.221E-08	11.52	.83	.50	.010	.012	.010
12	82.5	-10.09	7.62	.00	-7.62	2.36	-.99	1.536E-04	.090	.081	1.138E-06	11.52	.83	.50	.041	.024	.020
13	82.5	-8.83	7.62	.00	-7.62	1.14	-.99	8.396E-04	.399	.360	3.317E-05	11.53	.83	.50	.182	.328	.185
14	82.5	-8.02	7.62	[illegible]	-7.62	.13	-.99	4.230E-03	1.801	1.626	6.657E-04	11.53	.83	.50	.820	1.606	.887
15	82.5	-7.29	7.62	[illegible]	-7.29	1.03	-.95	5.205E-03	2.197	1.980	1.007E-03	11.53	.83	.50		1.993	
16	82.5	-3.6[illegible]	7.62	.00	-3.63	.03	-.47	3.624E-03	1.533	1.390	4.915E-04	11.55	.83	.50		1.341	
17	82.5	0.00	7.62	.00	0.00	0.00	0.00	3.834E-03	1.278	1.167	3.470E-04	11.56	.83	.50		1.158	
18	82.5	3.57	7.62	.00	3.57	1.00	.46	2.651E-03	1.145	1.037	2.682E-04	11.56	.83	.50		1.035	
19	82.5	7.27	7.62	.00	7.27	1.03	.95	1.509E-03	.667	.602	8.863E-05	11.55	.83	.50		.877	
20																	
21	82.5	9.72	7.62	.00	7.62	1.17	.99	1.292E-04	.076	.068	8.620E-07	11.56	.83	.50	.124	.049	.086
22	82.5	9.94	7.62	[illegible]	7.62	2.39	.99	-7.885E-07	.020	.018	-1.366E-09	11.55	.83	.50	.029	-.030	-.041
23	82.5	11.25	7.62	[illegible]	7.62	3.70	.99	2.561E-05	.014	.013	3.168E-08	11.55	.83	.50	.021	.018	.017
24	82.5	12.62	7.62	[illegible]	7.62	5.07	.99	4.510E-05	.010	.009	4.046E-08	11.55	.83	.50	.014	.017	.020
25	82.5	13.23	7.62	[illegible]	7.62	5.73	.99	6.843E-05	.014	.013	8.225E-09	11.55	.83	.50	.021	.026	.050
26	82.5	-13.34	11.35	3.76	-7.62	5.70	2.74	1.447E-05	.008	.007	1.032E-08	11.43	.82	.50	.003	.032	.002
27	82.5	-12.69	11.42	3.7[illegible]	-7.62	5.04	2.78	1.627E-05	.011	.010	1.543E-08	11.43	.82	.50	.003	.006	.002
28	82.5	-11.75	11.38	3.7[illegible]	-7.62	3.72	2.73	2.076E-05	.017	.015	3.210E-08	11.43	.82	.50	.005	.008	.003
29	82.5	-10.69	11.43	3.61	-7.62	2.44	2.79	1.734E-04	.105	.093	1.547E-06	11.42	.82	.50	.037	.067	.022
30	82.5	-8.97	11.45	3.93	-7.62	1.16	2.84	1.174E-03	.536	.476	5.457E-05	11.42	.82	.50	.169	.442	.159
31	82.5	-7.97	11.40	3.8[illegible]	-7.62	.33	2.84	6.064E-03	2.580	2.299	1.360E-03	11.42	.82	.50	.815	2.280	.796
32	82.5	-7.24	11.41	[illegible]	-7.24	0.00	2.81	7.614E-03	3.176	2.822	2.386E-03	11.42	.82	.50		2.864	
33	82.5	-3.71	11.45	3.92	-3.71	0.00	3.42	3.618E-03	1.531	1.348	4.728E-04	11.38	.82	.50		1.369	
34	82.5	0.01	11.6[illegible]	3.98	0.00	0.00	3.92	2.953E-03	1.250	1.091	3.143E-04	11.28	.81	.50		1.097	
35	82.5	3.53	11.51	3.69	3.53	0.00	4.32	2.711E-03	1.145	.991	2.618E-04	11.21	.81	.50		.992	
36	82.5	7.23	11.36	[illegible]	7.23	.93	4.66	1.645E-03	.672	.577	9.479E-05	11.15	.81	.50		.612	
37	82.5	7.69	11.41	3.76	7.62	.97	4.75	3.459E-04	.167	.143	4.839E-06	11.13	.83	.50	.209	.125	.205
38	82.5	9.75	11.34	3.7[illegible]	7.62	1.15	4.73	-1.199E-05	.088	.076	-9.861E-07	11.14	.83	.50	.132	.049	.071
39	82.5	9.[illegible]5	11.42	3.7[illegible]	7.62	2.35	4.76	-1.013E-05	.024	.021	-3.681E-08	11.13	.82	.50	.036	-.167	-.013
40	82.5	11.27	11.42	[illegible]	7.62	3.62	4.76	2.555E-05	.013	.009	[illegible].150E-08	11.13	.82	.50	.015	.069	.015
41	82.5	12.69	11.29	3.67	7.62	5.34	[illegible]	1.267E-06	.006	.005	6.621E-10	11.16	.81	.50	.009	.000	.001
42	82.5	13.29	11.24	3.72	7.52	5.48	[illegible]	1.133E-05	.007	.004	4.863E-09	11.16	.81	.50	.006	.047	.007
43	82.5	-13.37	14.97	[illegible]	-7.62	5.78	6.29	1.238E-06	.003	.003	3.297E-12	10.79	.78	.50	.001	.033	.009
44	82.5	-12.57	14.95	7.37	-7.62	4.91	6.27	-4.087E-06	.004	.003	-1.140E-09	10.80	.78	.50	.001	-.021	-.002





CFHT TEST (92), MDAC-E RSI GAPS, RUN (56) 1973 PAGE 31

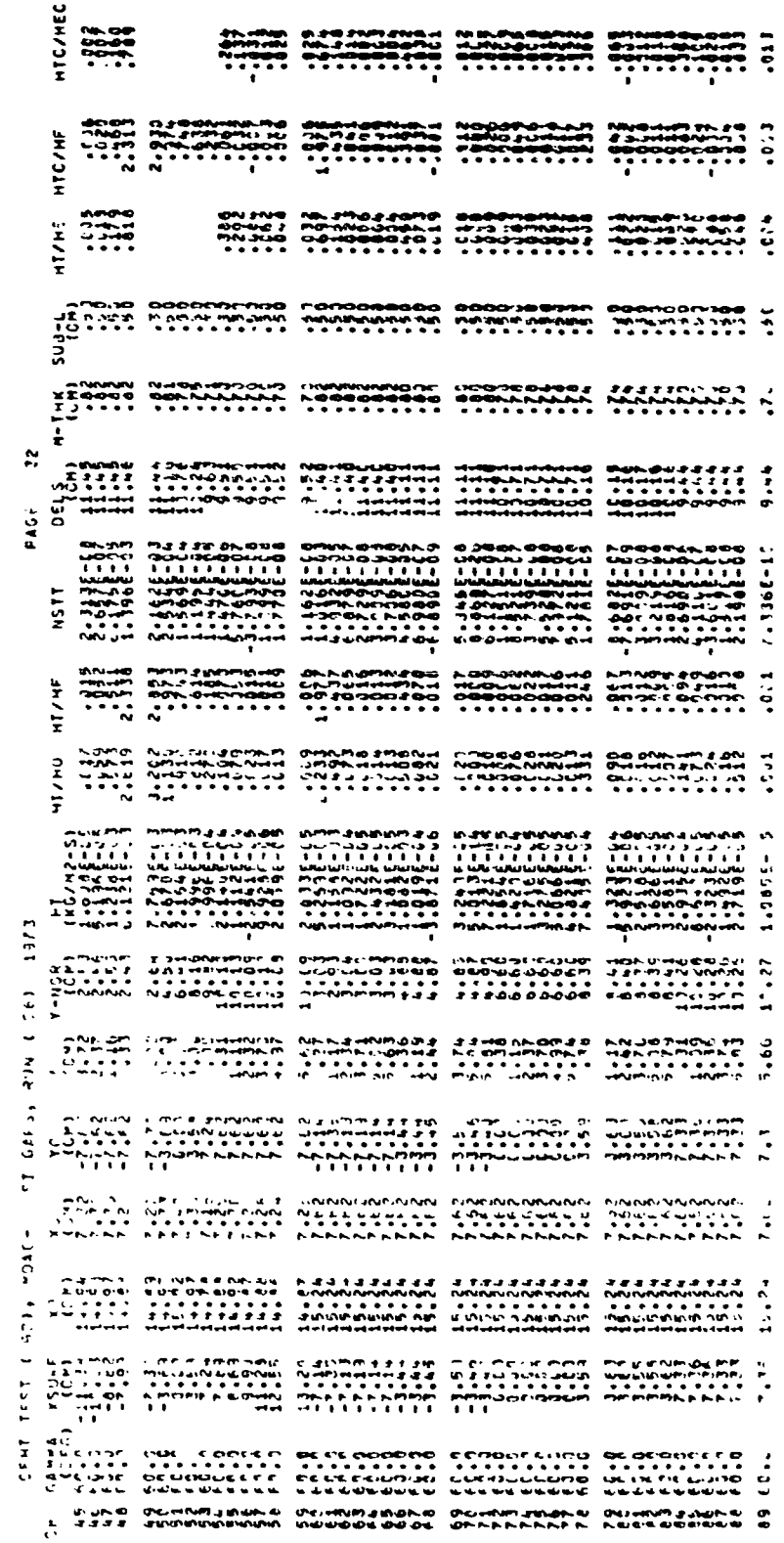
MACH = 10.232 TT = 1.083E+03(K)
RX EOS = 8.0[illegible]3E-02 P1 = 5.180E+06(N/M2)
RL EOS = 8.207E-02 T1 = 4.722E+01(K)
RE/METER = 3.266E+06 P1 = 9.841E+01(N/M2)
HO = 2.619E+02(N/M2-K) (RHO V)1 = 1.030E+01(KG/M2-S)
TW = 297.[illegible] (K) GAP = .457 (CM)
STEP = .254(CM) CONF =STAG

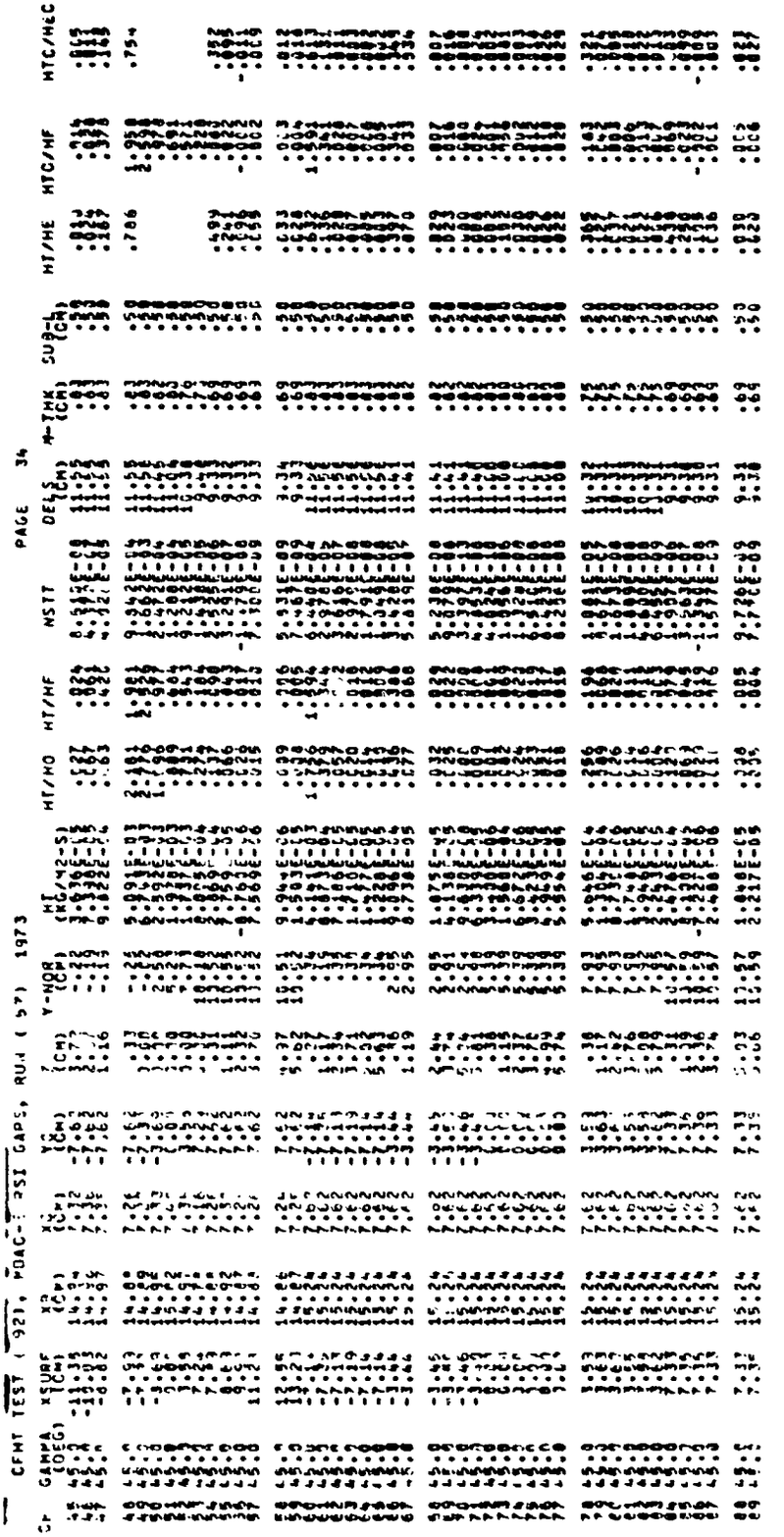
TAW/TT =0.935 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)
TILE COORDINATES(GAMMA=0.0)
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER
SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	[illegible]	-13.33	7.62	[illegible]	-7.62	3.70	-3.81	-1.576E-05	.017	.006	-9.159E-09	11.21	.81	.50	[illegible]	-.036	-.032
10	[illegible]	-12.77	7.62	[illegible]	-7.62	5.33	-3.81	4.767E-06	[illegible]	[illegible]	[illegible]	11.21	.81	.50	.005	[illegible]	[illegible]
11	[illegible]	-11.3[illegible]	7.62	[illegible]	-7.62	3.74	-3.81	3.211E-06	[illegible]	[illegible]	3.009E-09	11.21	.81	.50	.004	[illegible]	[illegible]
12	[illegible]	-1[illegible]	7.62	[illegible]	-7.62	2.16	-3.81	8.857E-05	.063	[illegible]	4.725E-07	11.21	.81	.50	.023	[illegible]	[illegible]
13	[illegible]	-8.[illegible]	7.62	[illegible]	-7.62	1.15	-3.81	1.083E-03	.501	.439	4.595E-05	11.21	.81	.50	.165	[illegible]	[illegible]
14	[illegible]	-8.[illegible]	7.62	[illegible]	-7.62	.33	-3.81	[illegible]	2.427	2.107	[illegible]	11.21	.81	.50	.808	2.0[illegible]	.787
15	[illegible]	-7.23	7.62	[illegible]	-7.23	[illegible]	-3.65	7.178E-03	3.333	2.643	1.851E-03	11.23	.81	.50		2.64[illegible]	
16	[illegible]	-[illegible].63	7.62	[illegible]	-3.63	[illegible]	-1.32	3.567E-03	1.503	1.354	4.711E-04	11.47	.82	.50		1.3[illegible]	
17	[illegible]	0.00	7.62	[illegible]	0.00	[illegible]	0.00	2.946E-03	1.254	1.1[illegible]1	3.288E-04	11.96	.83	.50		1.135	
18	[illegible]	3.54	7.62	[illegible]	3.54	1.0[illegible]	1.77	2.619E-03	1.136	1.019	2.604E-04	11.81	.83	.50		.9[illegible]	
19	[illegible]	7.27	7.62	[illegible]	7.27	1.00	3.61	1.683E-03	.750	.656	1.081E-04	11.32	.82	.50		.623	
21	[illegible]	8.77	7.62	[illegible]	7.62	1.17	3.81	1.170E-04	.070	.061	6.958E-07	11.29	.81	.50	.093	.343	[illegible]
22	[illegible]	9.9[illegible]	7.62	[illegible]	7.62	2.39	3.81	5.972E-06	.020	[illegible]	1.039E-08	11.29	.81	.50	.127	[illegible]	[illegible]
23	[illegible]	11.23	7.62	[illegible]	7.62	3.78	3.81	2.22[illegible]E-05	.009	[illegible]	1.637E-08	11.29	.81	.50	.013	[illegible]	[illegible]
24	[illegible]	12.6[illegible]	7.62	[illegible]	7.62	2.0[illegible]	3.81	3.21[illegible]E-05	.007	[illegible]	2.264E-08	11.29	.81	.50	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	7.62	[illegible]	7.62	[illegible]	3.81	[illegible]	.001	.007	[illegible]	11.29	.81	.50	[illegible]	[illegible]	[illegible]
26	[illegible]	-13.35	11.[illegible]	3.7[illegible]	-7.62	3.7[illegible]	[illegible]	1.742E-06	.003	.003	[illegible]	11.[illegible]	.83	.50	[illegible]	[illegible]	[illegible]
27	[illegible]	-12.60	11.62	[illegible]	-7.62	3.94	[illegible]	1.992E-05	.012	.018	1.624E-08	11.55	.83	.50	[illegible]	.006	[illegible]
28	[illegible]	-11.35	11.[illegible]	3.74	-7.62	3.72	[illegible]	3.135E-05	.022	.020	6.319E-08	11.54	.83	.50	.008	.012	[illegible]
[illegible]	[illegible]	-1[illegible]	11.43	3.7[illegible]	-7.[illegible]	2.44	-.71	8.920E-05	.069	.062	5.437E-07	11.55	.83	.50	.026	.034	.314
[illegible]	[illegible]	-8.[illegible]	11.45	[illegible]	-7.92	1.16	-.43	7.69[illegible]E-04	.361	.328	2.420E-05	11.55	.83	.50	.135	.292	[illegible]
[illegible]	[illegible]	7.97	11.49	[illegible]	-7.[illegible]	.33	-.46	4.7[illegible]E-03	2.442	1.852	8.623E-04	11.59	.83	.50	.757	1.832	.737
[illegible]	[illegible]	-7.[illegible]	11.51	[illegible]	-7.[illegible]	[illegible]	-.36	6.[illegible]E-03	2.697	2.448	1.544E-03	11.[illegible]	.83	.5[illegible]		2.4[illegible]	
[illegible]	[illegible]	-[illegible]	11.5[illegible]	3.92	-3.[illegible]	[illegible]	.5[illegible]	3.698E-03	1.564	1.[illegible]	5.379E-04	11.[illegible]	.83	.50		1.40[illegible]	
[illegible]	[illegible]	0.00	11.57	3.9[illegible]	[illegible]	[illegible]	3.42	2.855E-03	1.214	1.068	2.989E-04	11.35	.82	.50		1.059	
[illegible]	[illegible]	3.93	11.[illegible]	3.[illegible]9	[illegible]	2.03	5.16	2.63[illegible]E-03	[illegible]	.243	2.419E-04	11.[illegible]	.8[illegible]	.50		.94[illegible]	
[illegible]	[illegible]	7.23	11.[illegible]	[illegible]	7.23	[illegible]	6.88	1.75[illegible]E-03	.[illegible]07	.560	9.725E-05	10.[illegible]	.77	.5[illegible]		.597	
[illegible]	[illegible]	[illegible]	11.61	[illegible]	7.6[illegible]	.37	7.09	4.272E-04	.272	.161	[illegible].713E-06	1[illegible].57	.77	.5[illegible]	.260	.144	.241
[illegible]	[illegible]	.78	11.3[illegible]	[illegible]	7.62	1.15	7.05	1.005E-04	.062	.066	[illegible].802E-0[illegible]	10.58	.77	.50	.117	.036	.063
[illegible]	[illegible]	9.9[illegible]	11.42	[illegible]	7.[illegible]	2.35	7.1[illegible]	-2.[illegible]9E-05	.019	.014	-3.33[illegible]E-08	10.57	.77	.50	.425	-.038	-.01[illegible]
[illegible]	[illegible]	11.27	11.42	[illegible]	7.[illegible]	3.62	7.1[illegible]	2.0[illegible]9E-05	[illegible]	[illegible]	1.[illegible]54E-08	10.[illegible]7	.77	.5[illegible]	.310	[illegible]	[illegible]
[illegible]	[illegible]	1[illegible]	11.[illegible]	3.[illegible]	7.62	[illegible]	6.59	[illegible]	.039	[illegible]	8.622E-09	1[illegible]	.77	.50	.013	[illegible]	[illegible]
[illegible]	[illegible]	1[illegible]	11.[illegible]	[illegible]	7.62	5.58	[illegible]	[illegible]	[illegible]	.[illegible]2	[illegible]E-09	1[illegible]	.77	.[illegible]0	.00[illegible]	.015	.009
[illegible]	[illegible]	-1[illegible]	1[illegible].67	7.[illegible]	-7.[illegible]	5.70	2.55	9.[illegible]E-05	.037	.0[illegible]6	5.[illegible]E-09	11.45	.82	.50	.002	[illegible]	.00[illegible]
[illegible]	[illegible]	-12.57	1[illegible]	7.34	-7.62	[illegible]	2.53	1.63[illegible]E-05	.[illegible]13	.311	1.789E-08	11.45	.82	.30	.004	.036	.002

3.4-111

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3.4-114

CFHT TEST (92), MDAC-E RSI GAPS, RUN (71) 1973 PAGE 35

MACH = 1[illegible].299
RX F26 = 1.0[illegible]E+05
RL E26 = 7.9[illegible]E-02
RE/METER = 3.144E+06
HO = 2.519E+10(W/M2-K)
TW = [illegible] (K)
STEP = .254(CM)

TT = 1.013E+03(K)
PI = 5.150E+06(N/M2)
TI = 4.[illegible]E+01(K)
PI = 9.760E+01(N/M2)
(RHO V)1 = 1.312E+01(KG/M2-S)
GAP = .127 (CM)
CONF = STAG

TAW/TT = 0.995 FOR HT/HO
XSURF = SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)

TILE COORDINATES(GAMMA=0.0
X9 = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	X9 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	W-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9																	
10	90.0	-12.72	7.62	[illegible]	-7.62	3.73	0.00	7.557E-05	.001	.001	8.618E-09	11.56	.83	.50	.031	.029	.016
11	90.0	-11.34	7.62	[illegible]	-7.62	3.74	0.00	2.365E-05	.004	.003	6.589E-09	11.56	.83	.50	.032	.054	.024
12																	
13	90.0	-8.83	7.62	[illegible]	-7.62	1.14	3.00	1.485E-04	.106	.095	1.396E-06	11.56	.83	.50	.053	.057	.032
14	90.0	-8.02	7.62	[illegible]	-7.62	.33	3.00	3.021E-03	1.286	1.178	3.509E-04	11.56	.83	.50	.050	1.164	.047
15	90.0	-7.23	7.62	[illegible]	-7.23	[illegible]	3.00	4.660E-03	1.978	1.800	8.337E-04	11.56	.83	.50		1.730	
16	90.0	-3.63	7.62	[illegible]	-3.63	3.30	3.05	3.509E-03	1.484	1.359	4.702E-04	11.56	.83	.50		1.352	
17	90.0	0.03	7.62	[illegible]	0.03	3.30	0.00	2.952E-03	1.250	1.145	3.354E-04	11.56	.83	.50		1.137	
18	90.0	3.54	7.62	[illegible]	3.54	3.00	3.03	2.639E-03	1.140	1.038	2.718E-04	11.56	.83	.50		1.017	
19	90.0	7.27	7.62	[illegible]	7.27	1.33	3.03	1.576E-03	.698	.628	9.415E-05	11.56	.83	.50		.607	
20	90.0	7.97	7.62	[illegible]	7.62	.41	0.00	4.037E-05	.030	.060	6.233E-14	11.56	.83	.50	.038	.700	.038
21	90.0	8.72	7.62	[illegible]	7.62	1.17	2.03	1.494E-04	.000	.002	9.211E-07	11.56	.83	.50	.799	.018	.094
22	90.0	9.94	7.62	[illegible]	7.62	2.39	[illegible]	-4.267E-05	.000	.003	-1.509E-10	11.56	.83	.50	.008	-.016	-.027
23																	
24	90.0	12.62	7.62	[illegible]	7.62	5.07	0.00	-1.091E-04	.031	.000	-5.395E-09	11.56	.83	.50	.001	-.042	-.069
25																	
26	90.0	-13.35	11.78	3.70	-7.62	5.70	3.76	1.034E-04	.001	.001	1.337E-08	11.30	.81	.50	.001	.038	.022
27	90.0	-12.65	11.42	3.9[illegible]	-7.62	[illegible]	3.80	8.014E-05	.008	.007	6.032E-08	11.29	.81	.50	.004	.033	.017
28	90.0	-11.36	11.39	3.76	-7.62	3.72	3.76	1.626E-05	.004	.003	5.638E-09	11.30	.81	.50	.002	.0.6	.003
29																	
30	90.0	-8.83	11.45	3.83	-7.62	1.16	3.83	7.720E-05	.075	.066	5.058E-07	11.29	.81	.50	.035	.029	[illegible]
31	90.0	-7.93	11.49	3.87	-7.62	.33	3.87	3.256E-03	1.385	1.210	3.910E-04	11.28	.81	.50	.648	1.235	.623
32	90.0	-7.24	11.41	3.70	-7.24	3.00	3.79	5.220E-03	2.163	1.893	9.770E-04	[illegible].30	.81	.50		1.927	
33	90.0	-3.71	11.54	3.92	-3.71	3.00	3.92	3.451E-03	1.450	1.273	4.360E-04	[illegible].29	.81	.50		1.275	
34	90.0	0.04	11.57	3.45	0.04	3.08	3.95	2.924E-03	1.237	1.079	3.132E-04	[illegible]	.81	.50		1.088	
35	90.0	3.53	11.51	3.89	3.59	[illegible]	3.89	2.740E-03	1.156	1.010	2.746E-04	11.28	.81	.50		1.013	
36	90.0	7.24	11.38	3.74	7.28	[illegible]	3.74	1.550E-03	.752	.658	1.215E-04	11.30	.81	.50		.689	
37	90.0	7.93	11.41	3.79	7.62	.37	3.79	7.303E-04	.307	.260	1.967E-05	11.30	.81	.50	.478	.274	.397
38	90.0	8.75	11.36	3.74	7.62	1.15	3.74	1.355E-04	.065	.057	7.625E-07	11.30	.81	.50	.086	.058	.073
39																	
40																	
41																	
42	90.0	13.23	11.24	3.62	7.62	5.68	3.62	-9.157E-05	.033	.003	-2.604E-09	11.32	.82	.50	.004	-.034	-.049
43	90.0	-13.37	14.97	7.35	-7.62	3.71	7.35	1.273E-04	.033	.002	2.764E-08	13.20	.76	.50	.001	.043	.028
44																	
45	90.0	-11.39	14.94	7.32	-7.62	3.72	7.32	1.899E-05	.004	.003	6.906E-09	10.51	.76	.50	.032	.066	.083

3.4-1-1

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CFHT TEST (92), MDAC- RSI GAPS, RUN (72) 1973 PAGE 37

MACH = 10.20 TT = 5.1626E+03(K)
RX END = 7.9736E-02 PT = 4.0814E+01(N/M2)
RE END = 7.7[illegible]E+06 T1 = 9.0963E+01(K)
RE/METER = 2.[illegible]E+06 P1 = 1.6043E+01(KG/M2-S)
LOW = 29.6619E-03(W/M2-K) (RHO V)1 = 1.[illegible]
TRN = 29.11 (K) GAP = .127 (CM)
STEP = .254(CM) CONF =STAG

TAW/IT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE
(FLOW DIRECTION)
(0 OR 90 DEG)
HT/HE = GAP HEATING RATIO
HTC/HF = GAP HEATING (CONJUCTION CORRECTED H/HE
HTC/HEC= CONJUCTION CORRECTED HT/HE

TILE COORDINATES(GAMMA=0.0
XB = X-COORR. FROM TILE L.E.
XC = X-COORR. FROM TILE CENTER
YC = Y-COORR. FROM TILE CENTER
EDGE AT TILE TOP
RATIOED TO FLAT PLATE

SPECIFIC HEAT CORRECTED

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT//	HTC/HF	HTC/HEC
[illegible]																	

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CFHT TEST (92), MDAC-E RSI GAPS, RUN (73) 1973 PAGE 39

MACH = 10.297		TT = 1.021E+03(K)	
RY E06 = 7.772E-02		PI = 5.156E+06(N/M2)	
RL E06 = 7.967E-02		TI = 4.817E+01(K)	
RE/METER = 3.137E+06		PI = 9.769E+01(N/M2)	
HO = 2.619E+00(W/M2-K)		(RHO U)1 = 1.312E+01(KG/M2-S)	
TW = 297.1 (K)		GAP = .127 (CM)	
STEP = .254(CM)		CONF = STAG	

TAW/TT = 0.895 FOR HT/HO
XSURF = SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)

TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HF, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	75.0	-13.39	7.52	0.00	-7.62	5.70	-1.97	1.226E-04	.009	.007	8.402E-08	11.45	.82	.50	.004	.047	.025
10	75.0	-12.72	7.62	0.00	-7.62	5.93	-1.97	7.903E-05	.003	.003	2.238E-08	11.45	.82	.53	.002	.030	.016
11	75.0	-11.34	7.52	0.00	-7.62	3.74	-1.97	1.370E-05	.004	.004	5.386E-09	11.45	.82	.53	.002	.035	.003
12																	
13	75.0	-8.83	7.62	0.00	-7.62	1.14	-1.97	1.636E-04	.111	.100	1.616E-06	11.45	.82	.50	.353	.062	.033
14	75.0	-8.02	7.62	0.00	-7.62	.33	-1.97	3.293E-03	1.402	1.257	4.136E-04	11.45	.82	.50	.665	1.249	.660
15	75.0	-7.29	7.62	0.00	-7.29	0.00	-1.89	4.947E-03	2.107	1.890	9.353E-04	11.46	.82	.50		1.093	
16	75.0	-3.63	7.62	0.00	-3.63	0.00	-.94	3.560E-03	1.502	1.357	4.796E-04	11.53	.83	.50		1.362	
17	75.0	0.00	7.62	0.00	0.00	0.00	0.00	2.950E-03	1.255	1.142	3.343E-04	11.56	.83	.50		1.137	
18	75.0	3.54	7.62	0.00	3.54	0.00	.92	2.621E-03	1.129	1.020	2.654E-04	11.55	.83	.50		1.003	
19	75.0	7.27	7.62	0.00	7.27	0.00	1.89	1.616E-03	.700	.635	1.019E-04	11.50	.83	.50		.614	
20	75.0	7.97	7.62	0.00	7.62	.41	1.97	3.579E-06	.002	.001	4.824E-10	11.53	.83	.50	.002	.061	.002
21	75.0	8.72	7.62	0.00	7.62	1.17	1.97	1.452E-04	.067	.063	8.642E-07	11.50	.83	.50	.094	.055	.090
22	75.0	9.94	7.62	0.00	7.52	2.39	1.97	-4.175E-05	.001	.001	-2.345E-09	11.50	.83	.53	.091	-.016	-.026
23																	
24	75.0	12.62	7.62	0.00	7.62	5.07	1.97	-1.002E-04	.004	.004	-3.548E-08	11.58	.83	.53	.006	-.038	-.062
25																	
26																	
27																	
28	75.0	-11.34	11.30	3.76	-7.62	3.72	1.66	-2.320E-04	.004	.003	-7.884E-08	11.52	.83	.50	.032	-.049	-.041
29																	
30	75.0	-8.80	11.45	3.83	-7.62	1.16	1.73	1.132E-04	.078	.070	7.868E-07	11.51	.83	.50	.033	.043	.020
31	75.0	-7.97	11.49	3.87	-7.62	.33	1.76	3.573E-03	1.518	1.363	4.829E-04	11.51	.83	.50	.645	1.357	.632
32	75.0	-7.24	11.41	3.79	-7.24	0.00	1.79	5.649E-03	2.353	2.111	1.184E-03	11.51	.83	.50		2.146	
33	75.0	-3.71	11.54	3.92	-3.71	0.00	2.83	3.492E-03	1.475	1.311	4.542E-04	11.42	.82	.50		1.313	
34	75.0	0.00	11.57	3.95	0.00	0.00	3.82	2.863E-03	1.219	1.067	3.053E-04	11.29	.81	.50		1.058	
35	75.0	3.59	11.51	3.69	3.59	0.00	4.69	2.660E-03	1.122	.962	2.541E-04	11.15	.81	.50		.966	
36	75.0	7.24	11.36	3.74	7.24	0.00	5.59	1.775E-03	.715	.661	1.058E-04	10.98	.79	.50		.631	
37	75.0	7.97	11.41	3.79	7.62	.37	5.63	6.383E-04	.298	.249	1.560E-05	10.95	.79	.50	.417	.226	.358
38	75.0	8.73	11.36	3.74	7.62	1.15	5.59	4.217E-05	.067	.056	2.335E-07	10.96	.79	.50	.093	.015	.024
39	75.0	9.95	11.42	3.80	7.62	2.35	5.64	-2.506E-04	.005	.007	-9.582E-08	10.95	.73	.50	.006	-.089	-.141
40																	
41																	
42	75.0	13.29	11.24	3.62	7.62	5.68	5.47	-1.023E-04	.001	.001	-6.853E-09	10.95	.79	.50	.001	-.036	-.058
43																	
44																	
45	75.0	-11.33	14.94	7.32	-7.62	3.72	5.09	-2.727E-04	.005	.004	-1.383E-07	11.07	.80	.50	.002	-.098	-.044

3.4-145

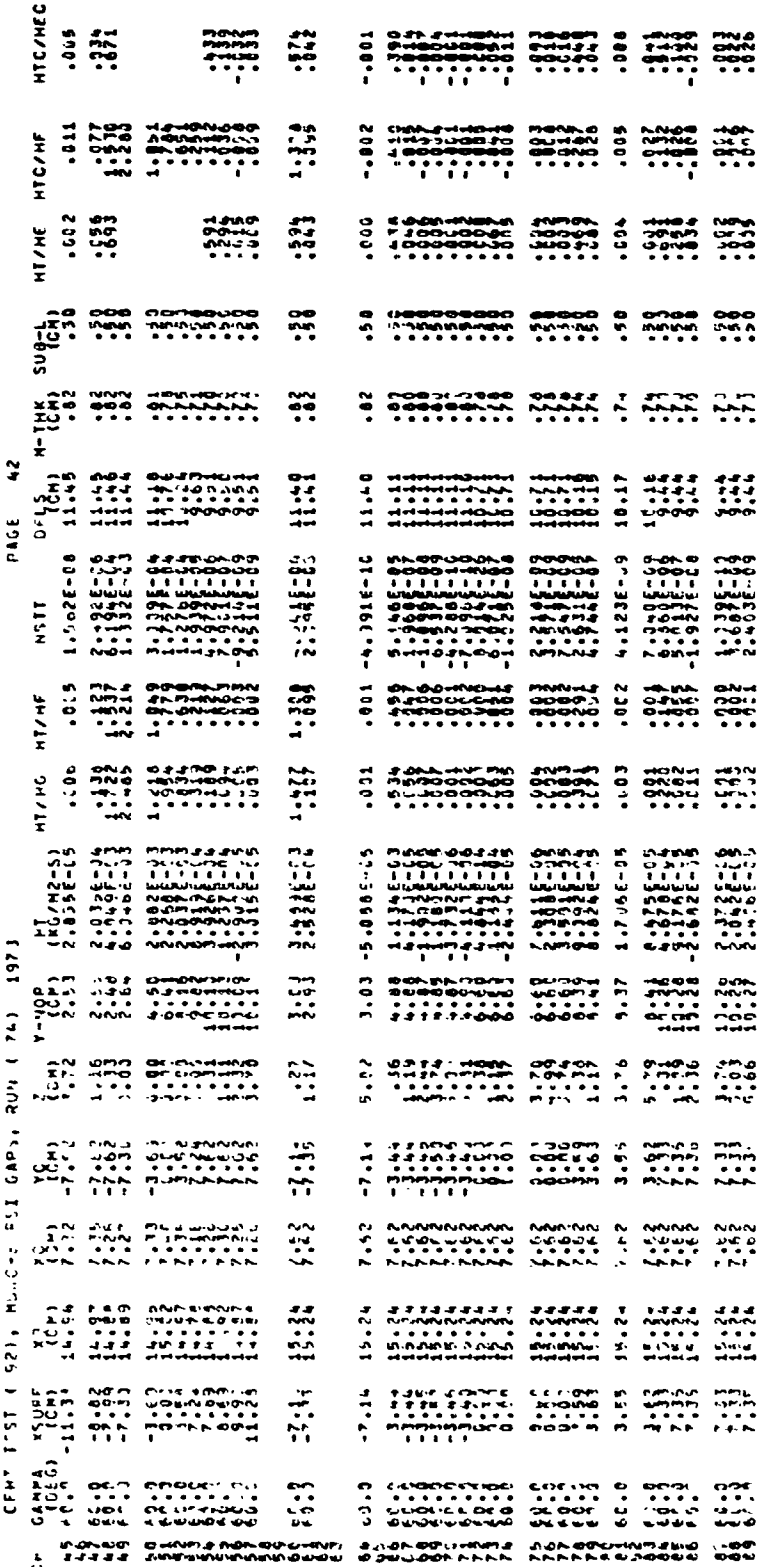
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PAGE 41

SPECIFIC HEAT CONSIDERED

3.4-147

ORIGINAL PAGE IS
OF POOR QUALITY



CFHT TEST (92), C-5 RSI GAPS, RUN (72) 1973 PAGE 43

MACH = 11.200
RX FT6 = 8.460E-02
RL FT6 = 8.771E-02
RE/METER = 3.255E+06
HO = 2.519E+01 (W/M2-K)
TW = 296.3 (K)
STEP = .254 (CM)

TT = 1.102E+03(K)
PT = 5.177E+06(N/M2)
T1 = 4.713E+01(K)
P1 = 9.794E+01(N/M2)
(RHO V)1 = 1.026E+01(KG/M2-S)
GAP = .127 (CM)
CONF =STAG

TAW/TT =0.995 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)

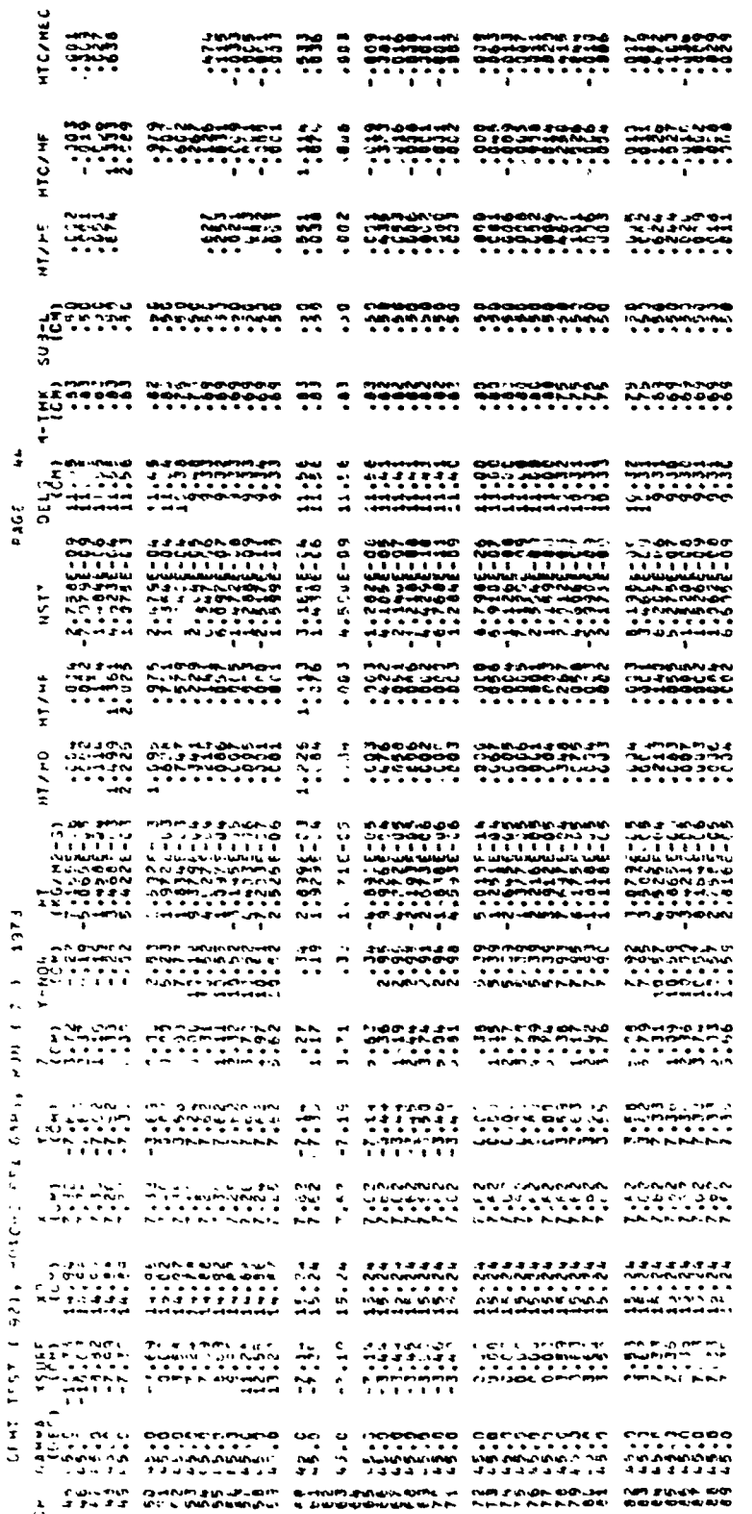
TILE COORDINATES,GAMMA=0.0
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB L (CM)	HT/HE	HTC/HF	HTC/HEC
9	45.0	-13.39	7.62	[illegible]	-7.62	3.73	-5.39	7.711E-05	.004	.003	2.870E-08	10.68	.75	.50	.062	.027	.016
10	45.0	-12.77	7.62	[illegible]	-7.62	3.03	-5.39	5.633E-05	.003	.004	2.359E-08	10.68	.74	.50	.003	.019	.011
11																	
12	45.0	-12.09	7.62	[illegible]	-7.62	2.36	-5.39	-2.474E-05	.010	.003	-2.085E-08	10.68	.79	.50	.075	-.009	-.002
13	45.0	-9.83	7.62	[illegible]	-7.62	1.14	-5.39	1.137E-04	.098	.089	9.248E-07	10.68	.79	.50	.047	.041	.024
14	45.0	-9.02	7.62	[illegible]	-7.62	.33	-5.39	2.996E-03	1.796	1.456	3.120E-04	10.48	.79	.50	.627	1.032	.604
15	45.0	-7.29	7.62	[illegible]	-7.29	3.00	-5.16	4.313E-03	2.671	1.723	8.193E-04	10.93	.79	.50		1.716	
16	45.0	-3.63	7.62	3.00	-3.63	3.30	-2.57	3.273E-03	2.301	1.231	3.947E-04	11.39	.82	.50		1.236	
17	45.0	0.00	7.62	[illegible]	0.00	3.00	3.50	2.832E-03	1.205	1.096	3.041E-04	11.56	.83	.50		1.091	
18	45.0	3.54	7.62	0.30	3.54	3.30	3.84	2.731E-03	1.148	1.048	2.731E-04	11.48	.82	.50		1.031	
19	45.0	7.27	7.62	[illegible]	7.27	0.90	5.14	2.058E-03	.899	.764	1.534E-04	11.66	.80	.50		.737	
20																	
21	45.0	8.72	7.62	[illegible]	7.62	1.17	5.39	5.078E-05	.057	.044	4.251E-07	11.08	.80	.50	.003	.032	.044
22	45.0	9.94	7.62	[illegible]	7.62	2.39	5.39	-2.184E-05	.005	.004	-6.981E-09	11.00	.80	.50	.006	-.008	-.011
23	45.0	11.23	7.62	[illegible]	7.62	3.73	5.39	1.947E-05	.001	.001	8.532E-10	11.00	.80	.50	.001	.005	.005
24	45.0	12.57	7.62	[illegible]	7.62	5.57	5.39	3.836E-05	.001	.001	2.665E-09	11.08	.80	.50	.001	.018	.014
25	45.0	13.23	7.62	[illegible]	7.62	5.73	5.39	3.789E-05	.002	.001	4.958E-09	11.08	.80	.50	.002	.017	.019
26	45.0	-13.35	11.38	3.70	-7.62	5.70	-2.73	1.013E-04	.003	.003	2.972E-08	11.37	.82	.50	.001	.038	.017
27	45.0	-12.98	11.42	3.50	-7.62	5.04	-2.73	7.390E-05	.005	.004	3.092E-08	11.37	.82	.50	.002	.028	.017
28	45.0	-11.36	11.38	3.76	-7.62	3.7	-2.73	1.195E-05	.034	.904	4.019E-09	11.37	.82	.50	.002	.8L4	.002
29																	
30	45.0	-8.61	11.45	3.87	-7.62	1.16	-2.68	5.274E-05	.067	.060	3.922E-07	11.37	.82	.50	.028	.021	.009
31	45.0	-7.97	11.49	3.87	-7.62	.33	-2.65	3.562E-03	1.515	1.349	4.705E-04	11.38	.82	.50	.626	1.342	.613
32	45.0	-7.24	11.41	3.79	-7.24	1.35	-2.44	5.789E-03	2.412	2.153	[illegible]	11.40	.82	.50		2.109	
33	45.0	-3.71	11.56	3.92	-3.71	3.05	.35	3.399E-03	1.432	1.301	5.319E-04	[illegible]	.83	.50		1.364	
34	45.0	0.0	[illegible]	3.55	0.0	3.33	2.75	2.637E-03	1.115	.991	2.580E-04	11.62	.82	.50		.992	
35	45.0	3.59	11.51	3.89	3.53	3.20	2.69	2.588E-03	1.031	.922	2.336E-04	[illegible]	.80	.50		.926	
36	45.0	7.23	11.38	[illegible]	7.23	[illegible]	2.93	1.951E-03	.802	.620	1.125E-04	10.36	.79	.50		.642	
37	45.0	7.9	11.41	3.79	7.62	.37	3.07	7.457E-04	.341	.259	1.673E-05	10.27	.72	.50	.625	.240	.374
38	45.0	8.78	11.38	3.76	7.62	1.15	5.03	4.059E-05	.059	.045	1.785E-07	10.28	.75	.50	.074	.013	.320
39	45.0	9.95	11.42	[illegible]	7.62	4.35	[illegible]	-3.213E-05	.003	.032	-6.156E-09	10.47	.73	.50	.003	-.016	-.016
40	45.0	11.22	11.42	[illegible]	7.62	1.62	[illegible]	2.227E-05	.004	.013	6.183E-09	10.47	.76	.50	.009	.007	.011
41	45.0	12.46	11.29	3.67	7.62	5.24	[illegible]	[illegible]	.024	.033	2.412E-08	10.30	.75	.50	.005	.027	.041
42																	
43	45.0	-13.07	14.97	7.35	-7.62	2.70	-.19	1.876E-05	.032	.002	2.085E-09	11.15	.83	.52	.001	.004	.002
44	45.0	-12.57	14.95	7.33	-7.62	4.31	-.21	7.747E-06	.032	.002	1.036E-09	11.15	.83	.52	.001	.003	.001

3.4-149



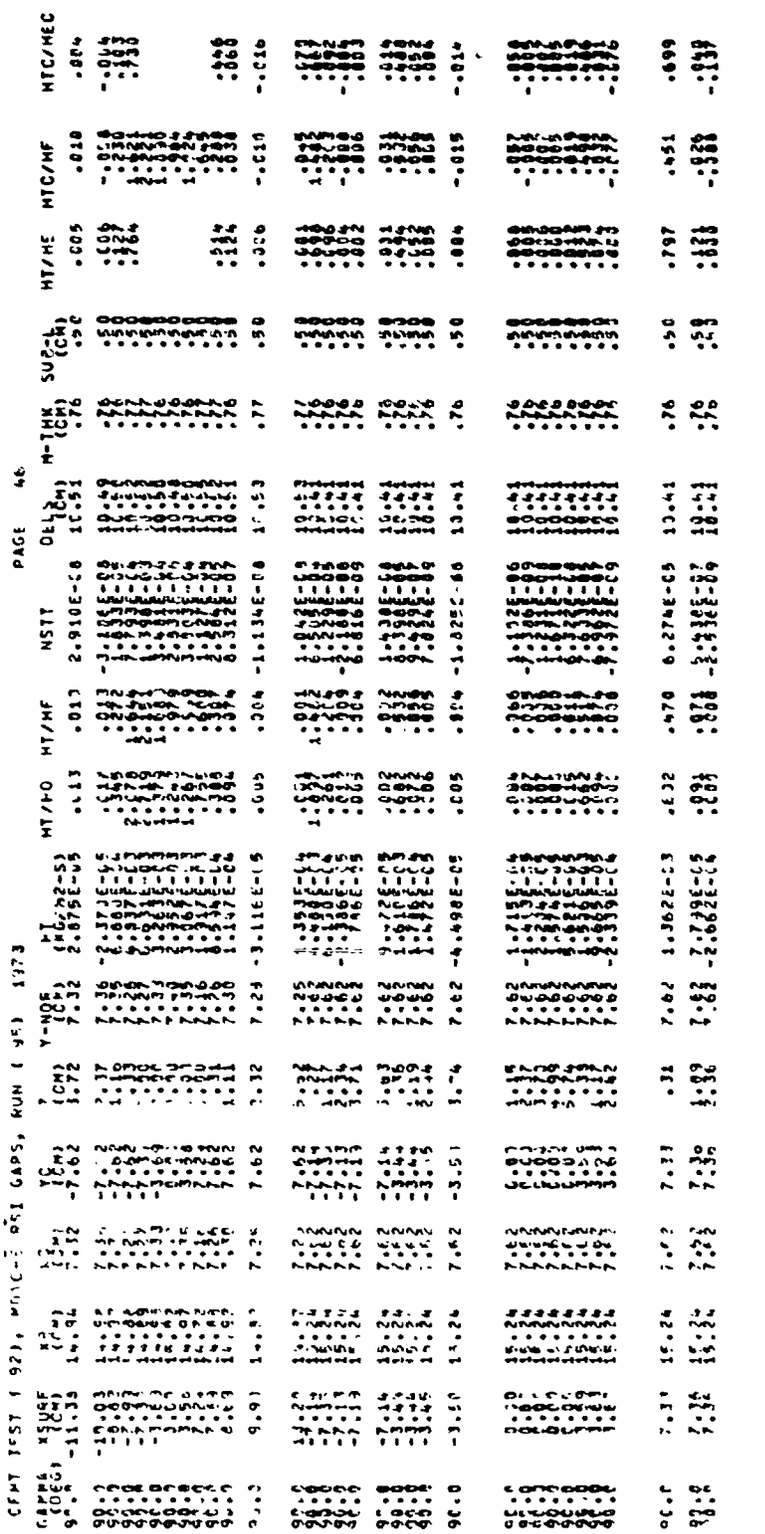
CFHT TEST (92), MDAC-E RSI GAPS, RUN (95) 1973 PAGE 45

MACH = 17.29 TT = 1.037E+03(K)
RX FOB = 1.770E+06 PT = 5.171E+03(N/M2)
RL FOB = 8.217E-02 TI = 4.763E+01(K)
RE/METER = 3.234E+05 PI = 9.018E+01(N/M2)
HO = 2.615E+04(W/M2-K) (RHO V)I = 1.035E+01(KG/M2-S)
TW = 558.1 (K) GAP = .229 (CM)
STEP = .254(CM) CONF = STAG

TAW/TT = 0.895 FOR HT/HO TILE COORDINATES(GAMMA=0,L
XSURF = SURFACE DIST/NCF X3 = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(L.J OR 90 DEG) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED
HT/HF, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HF

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9																	
10	90.0	-2.72	7.62	[illegible]	-7.62	5.13	3.00	1.831E-04	.035	.325	5.747E-08	11.56	.83	.50	.003	.048	.023
11	90.0	-11.34	7.62	[illegible]	-7.62	3.74	3.00	3.659E-05	.037	.026	2.112E-08	11.56	.83	.50	.003	.014	.006
12	90.0	-10.05	7.62	[illegible]	-7.62	2.36	0.00	-2.020E-05	.010	.009	-1.768E-08	11.56	.83	.50	.025	-.008	-.004
13	90.0	-6.83	7.62	[illegible]	-7.62	[illegible]	0.00	[illegible]	.174	.150	4.950E-06	11.56	.83	.50	[illegible]	.123	.070
14	[illegible]	-8.02	7.62	[illegible]	-7.63	.33	0.00	[illegible]	1.326	1.207	3.639E-04	11.56	.83	.50	.690	1.185	.679
15	[illegible]	-7.29	7.62	[illegible]	-7.29	.00	0.00	[illegible]	1.921	1.749	7.764E-04	11.56	.83	.50		1.74[illegible]	
16	90.0	-3.63	7.62	[illegible]	-3.63	[illegible]	[illegible]	[illegible]	1.471	1.339	4.566E-04	11.56	.83	.50		[illegible]	
17	90.0	[illegible]	7.62	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.257	1.145	3.308E-04	11.56	.83	.50		[illegible]	
18	90.0	3.54	7.62	[illegible]	3.54	[illegible]	3.00	2.656E-03	1.149	1.046	2.722E-04	11.56	.83	.50		1.023	
19	90.0	7.27	7.62	[illegible]	7.27	1.00	3.03	1.563E-03	.665	.623	9.550E-05	11.56	.83	.50		.602	
20	90.0	7.9[illegible]	7.62	[illegible]	7.62	.41	3.00	1.928E-06	.031	.001	[illegible]	11.56	.83	.50	.001	.001	.001
21	94.[illegible]	8.72	7.42	[illegible]	7.62	1.17	3.00	1.604E-04	.071	.062	1.022E-06	11.56	.83	.50	.104	.067	.153
22	90.0	9.94	7.62	0.00	7.62	2.39	0.00	-3.541E-05	.000	.000	-1.483E-09	11.56	.83	.50	.001	-.014	-.023
23																	
24	90.0	12.62	7.62	[illegible]	7.62	2.07	0.00	6.154E-05	.031	.001	6.704E-09	11.56	.83	.50	.022	.024	.039
25	90.0	13.24	7.62	[illegible]	7.62	5.73	0.00	9.121E-05	.074	.005	3.143E-09	11.56	.83	.50	.006	.032	.058
26	90.0	-13.35	11.39	3.7[illegible]	-7.62	5.70	3.76	4.350E-06	.002	.002	8.933E-10	11.30	.81	.50	.001	.002	.001
27	90.0	-12.63	11.42	3.2[illegible]	-7.62	5.06	3.80	8.897E-06	.004	.004	3.107E-09	11.29	.81	.50	.032	.103	.002
28	90.0	-11.36	11.38	3.7[illegible]	-7.62	3.72	3.76	9.953E-06	.005	.005	3.469E-09	11.30	.81	.50	.002	.064	.003
29	90.0	-10.09	11.43	3.81	-7.62	2.44	3.81	-4.307E-05	.005	.005	-1.967E-08	11.29	.81	.50	.002	-.016	-.007
30	90.0	-8.4[illegible]	11.45	3.[illegible]	-7.62	1.15	3.83	4.[illegible]E-04	.227	.194	8.089E-08	11.29	.81	.50	.092	.157	.073
31	90.0	-7.97	11.49	3.87	-7.63	.13	3.87	4.[illegible]E-03	1.755	1.734	6.147E-04	11.29	.81	.50	.727	1.513	.704
32	90.0	-7.24	11.41	3.80	-7.24	[illegible]	3.73	5.842E-03	2.439	2.109	1.199E-03	11.30	.81	.50		2.150	
33	90.0	-3.71	11.54	3.92	-3.71	.00	3.92	3.459E-03	1.463	1.277	4.329E-04	11.28	.81	.50		1.278	
34	90.0	0.03	11.57	3.95	0.03	.00	3.95	2.929E-03	1.246	1.082	3.13[illegible]E-04	11.27	.81	.50		1.062	
35	90.0	3.59	11.51	3.86	3.59	.00	3.89	2.742E-03	1.159	1.012	2.72[illegible]E-04	11.28	.81	.50		1.017	
36	90.0	7.23	11.36	3.74	7.23	.00	3.74	1.622E-03	.734	.643	1.348E-04	11.30	.81	.50		.676	
37	90.0	7.97	11.41	3.79	7.62	.37	3.79	9.382E-04	.274	.240	1.321E-05	11.30	.81	.50	.373	.218	.323
38	90.0	8.75	11.36	3.74	7.62	1.15	3.74	1.[illegible]E-05	.469	.060	1.54[illegible]E-07	11.30	.81	.50	.094	.012	.017
39	90.0	9.93	11.42	3.8[illegible]	7.62	2.35	3.80	-2.436E-04	.361	.000	-1.161E-08	11.29	.81	.50	.001	-.040	-.134
40																	
41																	
[illegible]	90.0	-13.37	14.97	7.35	-7.62	5.70	7.35	2.879E-05	.031	.011	1.471E-07	10.10	.76	.50	.008	.017	.043
[illegible]	90.0	-17.57	14.95	7.33	-7.61	4.91	7.33	2.328E-05	.035	.004	9.896E-09	10.10	.76	.50	.002	.006	.004

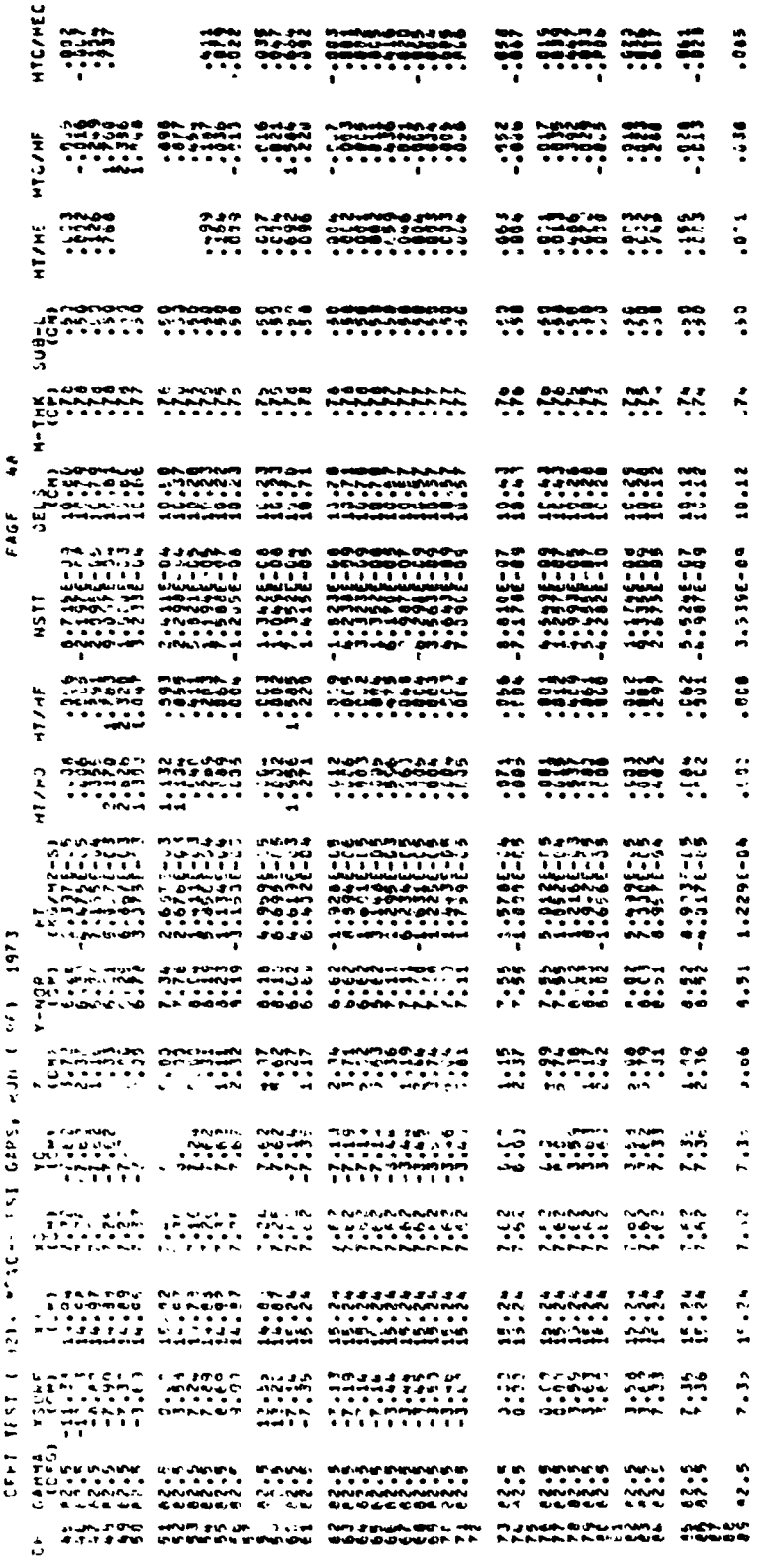
3.4-149



CFMT TEST 920, MJAC-E AGI (APS, RUN (76) 1973

SPECIFIC MFT CONNECTED

3.4-191



CFHT TEST (921), MDAC-E PSI GAPS, RUN (37) 1973 PAGE 49

MACH = 10.297 TT = 1.0112E+03(K)
RE/FOOT = 7.8726E-02 PT = 5.0393E+01(N/M2)
RE/METER = 3.2119E+01 PS = 2.8866E+00(N/M2)
H0 = 2984.4 (K) (RHO V)1 = 2.9329 (KG/M2-S)
TW = 294.4 (K) GAP = .9329 (CM)
STEP = .254 (CM) CONF = STAG

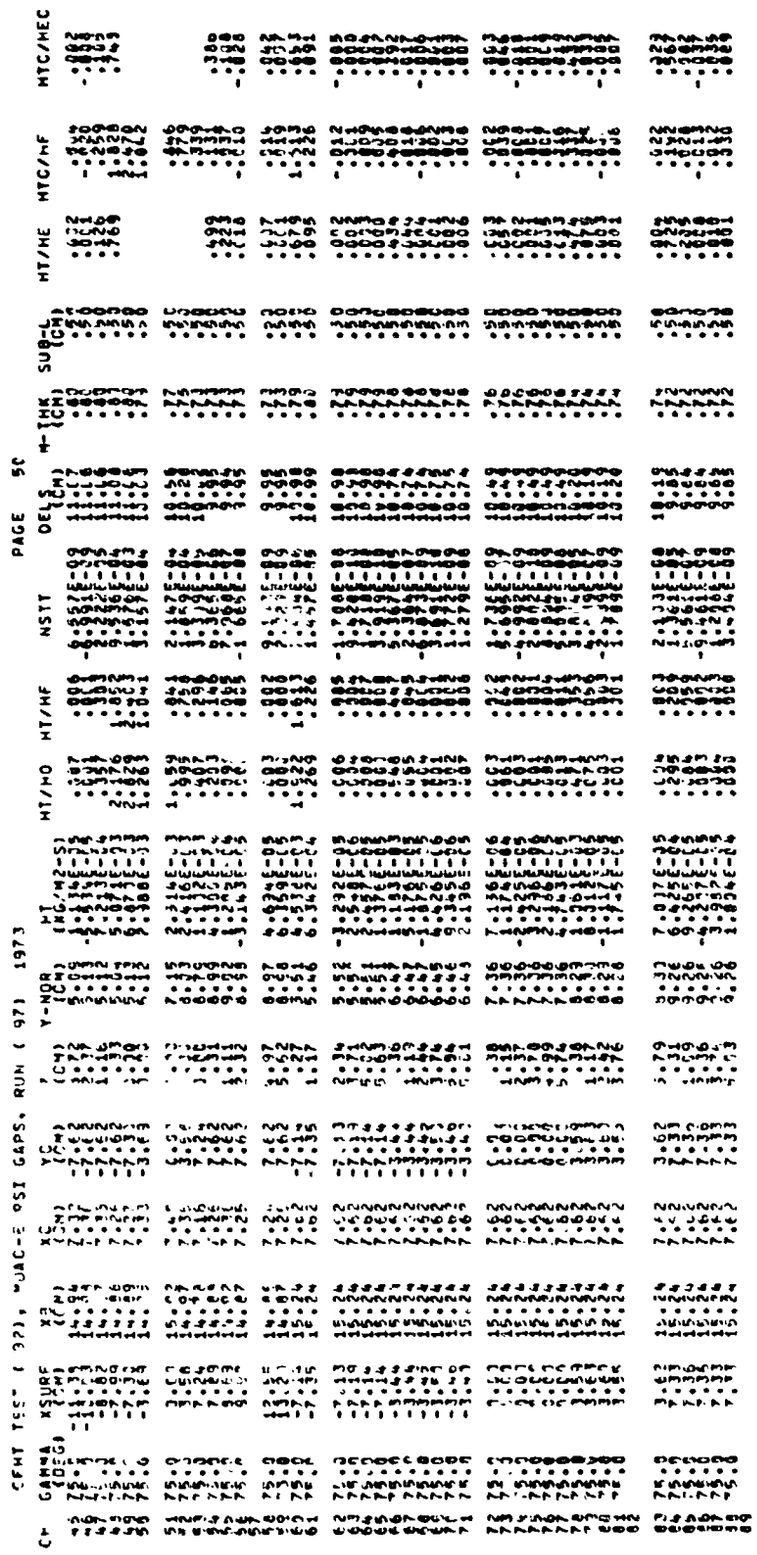
TAW/TT =0.895 FOR M/MO TILE COORDINATES(GAMMA=0.)
XSURF =SURFACE DISTANCE XR = R-COOR. FROM TILE CENTER
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
HT/HE= GAP HEATING RATIO DED TO EDGE AI YC = Y-COOR. FROM TILE CENTER
HTC/HF= GAP HEATING (CONDUCTION CORRECTED RATIO TO FLAT PLATE
HTC/HE= CONDUCTION CORRECTED HT/HE

SPECIFIC HEAT CORRECTED

CP	GAMMA (DEG)	XSURF (CM)	XR (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	PT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELTA (CM)	M-THK (CM2)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	75.0	-11.39	7.62	-7.62	7.62	5.74	1.97	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
2	75.0	-11.38	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
3	75.0	-11.36	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
4	75.0	-11.34	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
5	75.0	-11.32	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
6	75.0	-11.30	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
7	75.0	-11.28	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
8	75.0	-11.26	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
9	75.0	-11.24	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
10	75.0	-11.22	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
11	75.0	-11.20	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
12	75.0	-11.18	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
13	75.0	-11.16	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
14	75.0	-11.14	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
15	75.0	-11.12	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
16	75.0	-11.10	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
17	75.0	-11.08	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
18	75.0	-11.06	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
19	75.0	-11.04	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
20	75.0	-11.02	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
1	75.0	-11.39	7.62	-7.62	7.62	5.74	1.97	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
2	75.0	-11.38	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
3	75.0	-11.36	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
4	75.0	-11.34	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
5	75.0	-11.32	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
6	75.0	-11.30	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
7	75.0	-11.28	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
8	75.0	-11.26	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
9	75.0	-11.24	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
10	75.0	-11.22	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
11	75.0	-11.20	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
12	75.0	-11.18	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
13	75.0	-11.16	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
14	75.0	-11.14	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
15	75.0	-11.12	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
16	75.0	-11.10	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
17	75.0	-11.08	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
18	75.0	-11.06	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
19	75.0	-11.04	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021
20	75.0	-11.02	7.62	-7.62	7.62	5.74	1.96	-8.7202E-05	.0002	.0002	3.9151E-10	1.1144E-04	.033	.500	.0002	.0021	.0021

3.4-193

ORIGINAL PAGE IS
OF POOR QUALITY



CFHT TEST (92), MDAC-E RSI GAPS, RUN (95) 1973 PAGE 51

MACH = 10.250
RX FR6 = 7.643E-02
AL FS6 = 7.855E-02
RE/METER = 3.093E+06
HO = 2.616E+02(N/M2-K)
TW = 295.9 (K)
STEP = .254(CM)

TT = 1.013E+03(K)
PI = 5.013E+06(N/M2)
TI = 4.777E+01(K)
PL = 9.945E+01(N/M2)
(RHO V)I = 7.485E+01(KG/M2-S)
GAP = .229 (CM)
CONF = STAG

TAW/TT = 0.895 FOR HT/HO
XSURF = SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)

TILE COORDINATES(GAMMA=0.0)
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	60.0	-13.39	7.62	[illegible]	-7.62	5.70	-3.81	7.810E-06	.002	.002	1.474E-09	11.21	.01	.50	.001	.003	.001
10	60.0	-12.72	7.62	[illegible]	-7.62	5.93	-3.81	3.795E-06	.001	.001	4.575E-10	11.21	.01	.50	.001	.001	.001
11	60.0	-11.34	7.62	[illegible]	-7.62	3.74	-3.81	8.459E-06	.005	.005	4.727E-09	11.21	.01	.50	.002	.003	.002
12	60.0	-11.09	7.62	[illegible]	-7.62	2.36	-3.81	-3.859E-05	.005	.005	-1.871E-08	11.21	.01	.50	.002	-.014	-.007
13	60.0	-8.83	7.62	[illegible]	-7.62	1.14	-3.81	4.193E-04	.220	.191	8.130E-06	11.21	.01	.50	.093	.154	.075
14	60.0	-8.02	7.62	[illegible]	-7.62	.33	-3.81	3.967E-03	1.705	1.481	7.971E-04	11.21	.01	.50	.722	1.456	.707
15	60.0	-7.23	7.62	[illegible]	-7.29	0.00	-3.65	5.592E-03	2.361	2.059	1.169E-03	11.23	.01	.50		2.063	
16	60.0	-3.63	7.62	[illegible]	-3.63	0.00	-1.82	3.536E-03	1.493	1.348	4.315E-04	11.47	.02	.50		1.343	
17	60.0	3.6?	7.62	[illegible]	0.00	0.00	0.00	2.948E-03	1.254	1.141	3.419E-04	11.56	.03	.50		1.136	
18	60.0	3.54	7.62	[illegible]	3.54	0.00	1.77	2.660E-03	1.148	1.038	2.705E-04	11.51	.03	.50		1.011	
19	60.0	7.27	7.62	[illegible]	7.27	0.00	3.63	1.510E-03	.804	.705	1.303E-04	11.32	.02	.50		.675	
20																	
21	60.0	8.72	7.62	[illegible]	7.62	1.17	3.81	1.213E-04	.073	.061	7.517E-07	11.29	.01	.50	.007	.045	.007
22	60.0	9.94	7.62	[illegible]	7.62	2.39	3.81	-2.586E-05	.003	.003	-6.927E-09	11.29	.01	.50	.004	-.010	-.014
23	60.0	11.25	7.62	[illegible]	7.62	3.70	3.81	4.716E-05	.002	.001	7.123E-09	11.29	.01	.50	.002	.017	.026
24	60.0	12.62	7.62	[illegible]	7.62	5.07	3.81	1.273E-04	.002	.002	2.253E-08	11.29	.01	.50	.002	.047	.079
25																	
26	60.0	-13.35	11.08	3.76	-7.62	5.70	-.55	3.726E-06	.003	.002	9.385E-10	11.54	.03	.50	.001	.001	.001
27	60.0	-12.65	11.42	3.8?	-7.62	5.04	-.52	5.546E-06	.004	.003	1.859E-09	11.55	.03	.50	.001	.002	.001
28	60.0	-11.36	11.38	3.76	-7.62	3.72	-.55	1.993E-05	.010	.009	1.415E-08	11.54	.03	.50	.039	.008	.003
29	60.0	-10.05	11.43	3.81	-7.62	2.44	-.51	-4.592E-05	.033	.003	-1.392E-08	11.55	.03	.50	.031	-.016	-.007
30	60.0	-8.8?	11.45	3.83	-7.62	1.16	-.49	3.642E-04	.197	.179	6.617E-06	11.55	.03	.50	.074	.140	.057
31	60.0	-7.67	11.49	3.87	-7.62	.33	-.45	4.433E-03	1.922	1.743	7.944E-04	11.55	.03	.50	.726	1.721	.705
32	60.0	-7.24	11.41	3.79	-7.24	0.00	-.?4	6.356E-03	2.648	2.403	1.593E-03	11.55	.03	.50		2.443	
33	60.0	-3.71	11.54	3.92	-3.71	0.00	1.?4	3.539E-03	1.496	1.345	4.840E-04	11.52	.03	.50		1.347	
34	60.0	0.0?	11.5?	3.93	0.0?	0.00	3.42	2.814E-03	1.199	1.048	2.996E-04	11.35	.02	.50		1.049	
35	60.0	3.5?	11.51	3.89	3.5?	0.00	5.16	2.664E-03	1.124	.954	2.583E-04	11.15	.80	.50		.957	
36	60.0	7.29	11.37	3.??	7.29	.00	6.88	1.570E-03	.758	.618	1.156E-04	10.63	.77	.50		.635	
37	60.0	7.07	11.41	3.??	7.62	.37	7.09	6.536E-04	.284	.226	1.572E-05	10.67	.77	.50	.375	.220	.347
38	60.0	8.75	11.36	3.74	7.62	1.15	7.05	6.105E-06	.067	.053	3.300E-07	10.56	.77	.50	.088	.021	.032
39																	
40	60.0	[illegible]	11.42	3.??	7.62	3.62	7.10	1.539E-05	.133	.012	3.271E-09	10.67	.77	.50	.003	.005	.008
41	60.0	[illegible]	11.29	3.67	7.62	5.04	6.99	7.737E-05	.002	.002	1.517E-08	10.60	.77	.50	.003	.026	.041
42																	
43	60.0	-13.	14.57	7.35	-7.62	5.70	2.55	2.634E-05	.006	.005	1.509E-08	11.45	.82	.50	.032	.011	.006
44	60.0	-12.5	14.45	7.?3	-7.62	4.91	2.53	2.232E-05	.007	.006	1.339E-08	11.45	.82	.50	.032	.008	.003

3.4-195

CFMT (EST 1 92), MDAC-E RSI GAPS, RUN (99) 1973 PAGE 53

MACH = 12.290 TT = 1.014E+03(K)
REYNOLDS = 7.500E-02 PT = 5.897E+06(N/M2)
REF LENGTH = 7.000E+00 PI = 4.000E+01(N/M2)
RHO = 2.000E-03(KG/M3) FRHO V11 = 9.000E+01(N/M2)
T WALL = 2.000E+03(K) QAP = 5.229 (CM)
STEP = .254(CM) CONF =STAG

TAW/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE
(FLOW DIRECTION)
HT/HF = GAP HEATING RATIO
HTC/HEC, CONDUCTION CORRECTED HT/HE

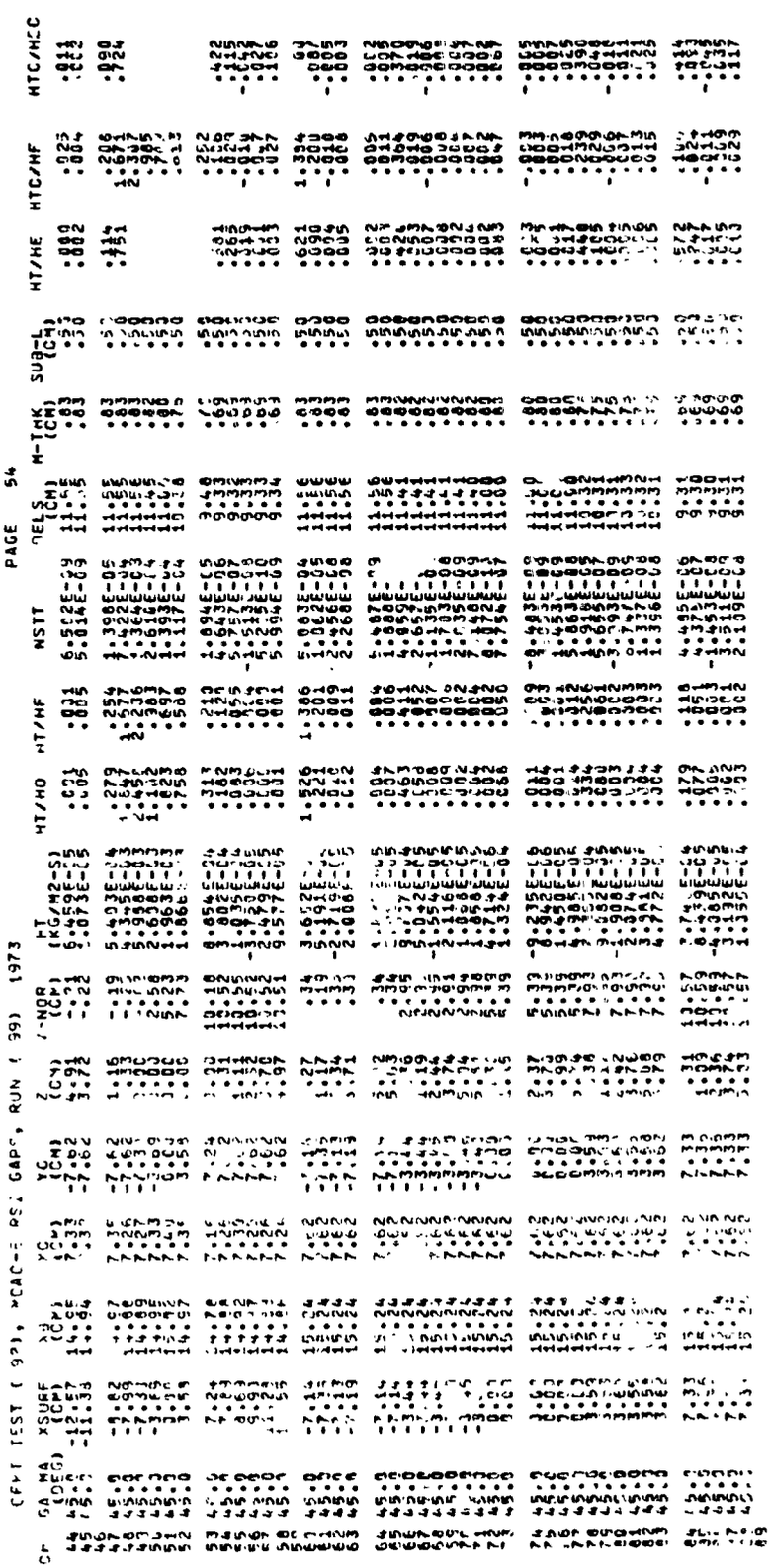
TILE COORDINATES(GAMMA=5.6
XB = X-COOR. FROM TILE LE
XC = X-CCOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER
EDGE AT TILE TOP
RATIOED TO FLAT PLATE

SPECIFIC HEAT CORRECTED

C#	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
41	45.0	12.64	11.25	3.67	7.62	5.94	7.98	-9.315E-05	.001	.0 1	-1.085E-08	11.10	.75	.33	.032	-.030	-.046
42	47.5																
43	49.0	-13.37	14.97	7.35	7.62	5.76	-.19	1.466E-04	.001	.861	9.934E-09	11.	.75	.83	.038	.041	.816

3.4-197

ORIGINAL PAGE IS
OF POOR QUALITY



CFHT TEST (92), MDAC-E RSI GAPS, RUN (112) 1973 PAGE 55

MACH = 12.293 TT = 9.9336E+02(K)
REX/FT = 3.1865E+06 PI = 3.1865E+06(N/M2)
REL/METER = 1.4214E+06 T1 = 6.0612E+01(K)
RHO/METER = 1.3116E-03 P1 = 1.0336E+01(KG/M2)
TIME = 295.9 (S) GAP =STAG
STEP = -.168(CM) CONF =STAG

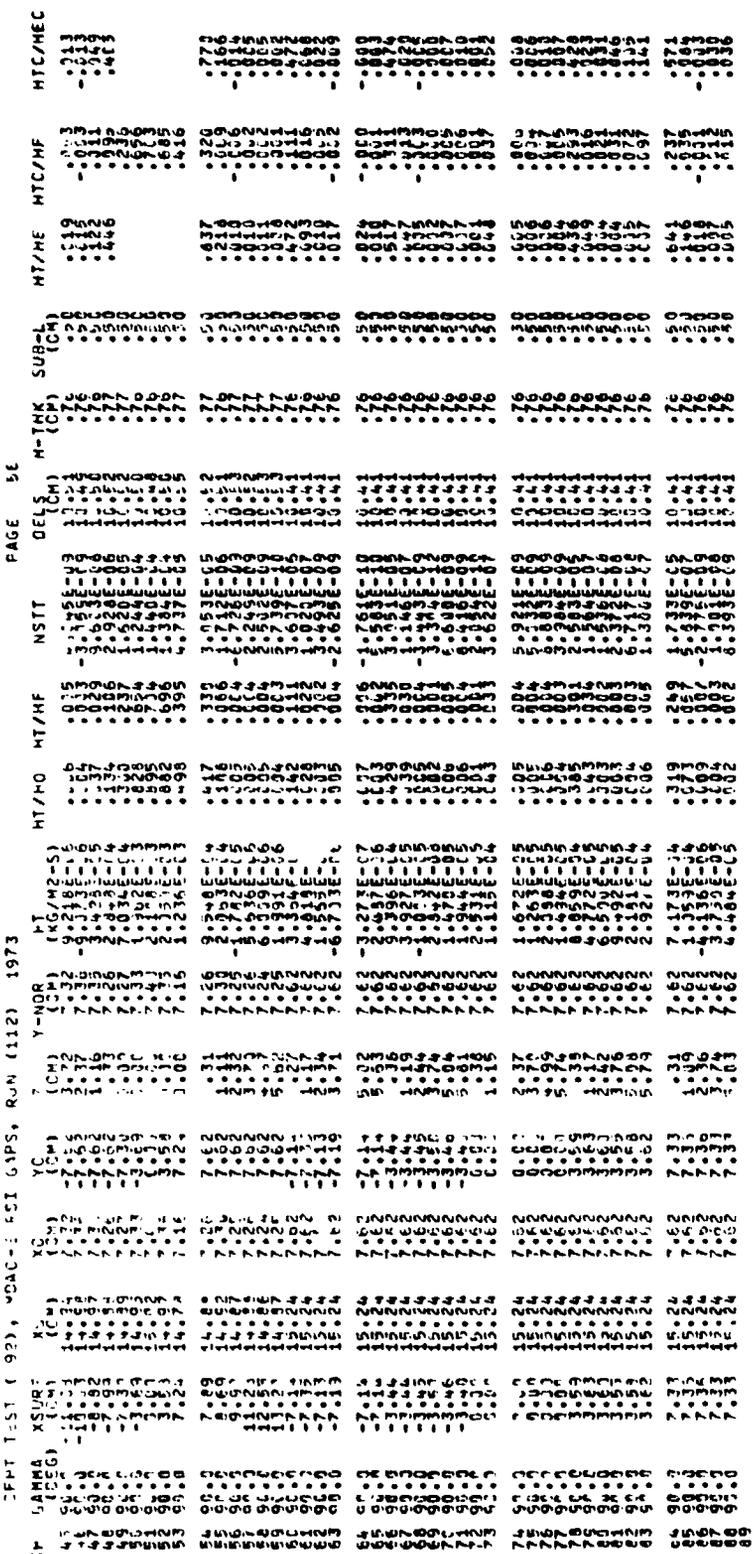
TAW/TT =0.995 FCR HT/HO
XSURF =SURFACE DISTANCE
(FLOW DIRECTION)
HT/HE, GAP HEATING RATIO DED TO EDGE AT TILE TOP
HTC/HEC, CONDUCTION CORRECTED HT/HE

TILE COORDINATES(GAMMA=6.0)
XB = X-COOR. FROM TILE LEADING EDGE
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

I	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	T (KG/M2-S)	HT/HO	NSTT	DELS (CM)	W-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	0.0	-13.396	7.6	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
2	0.0	-13.295	7.7	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
3	0.0	-13.195	7.8	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
4	0.0	-13.095	7.9	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
5	0.0	-12.995	8.0	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
6	0.0	-12.895	8.1	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
7	0.0	-12.795	8.2	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
8	0.0	-12.695	8.3	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
9	0.0	-12.595	8.4	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
10	0.0	-12.495	8.5	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
11	0.0	-12.395	8.6	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
12	0.0	-12.295	8.7	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
13	0.0	-12.195	8.8	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
14	0.0	-12.095	8.9	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
15	0.0	-11.995	9.0	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
16	0.0	-11.895	9.1	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
17	0.0	-11.795	9.2	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
18	0.0	-11.695	9.3	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
19	0.0	-11.595	9.4	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
20	0.0	-11.495	9.5	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
21	0.0	-11.395	9.6	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
22	0.0	-11.295	9.7	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
23	0.0	-11.195	9.8	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
24	0.0	-11.095	9.9	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
25	0.0	-10.995	10.0	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
26	0.0	-10.895	10.1	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
27	0.0	-10.795	10.2	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
28	0.0	-10.695	10.3	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
29	0.0	-10.595	10.4	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
30	0.0	-10.495	10.5	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
31	0.0	-10.395	10.6	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
32	0.0	-10.295	10.7	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
33	0.0	-10.195	10.8	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
34	0.0	-10.095	10.9	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
35	0.0	-9.995	11.0	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
36	0.0	-9.895	11.1	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
37	0.0	-9.795	11.2	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
38	0.0	-9.695	11.3	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
39	0.0	-9.595	11.4	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
40	0.0	-9.495	11.5	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
41	0.0	-9.395	11.6	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
42	0.0	-9.295	11.7	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
43	0.0	-9.195	11.8	-7.62	-7.62	.000	0.00	.2567E-05	.0040	7.086E-09	.1115E-07	.083	.055	.433	.005	.109
44	0.0	-12.57	14.55	-7.62	-7.33	.091	7.33	1.4983E-03	.0005	5.464E-09	10.E0	.076	.056	.616	.805	.821

3.4-223



CFHT TEST (92), MDAC-E PSI GAPS, RUN (113) 1973 PAGE 57

MACH = 10.290 TT = 9.362E+02(K)
REX E06 = .0181826-02 PI = 5.114E+04(N/M2)
RL E06 = .044039E-02 T1 = 4.069E+01(K)
RE/METER = .037311E+06 P1 = 9.087E+01(N/M2)
RHO = .206196+00(KG/M3-K) (RHO V)1 = 1.335E+01(KG/M2-S)
TW = 296.8 (K) GAP = .229 (CM)
STEP = -.168(CM) CONF =STAG

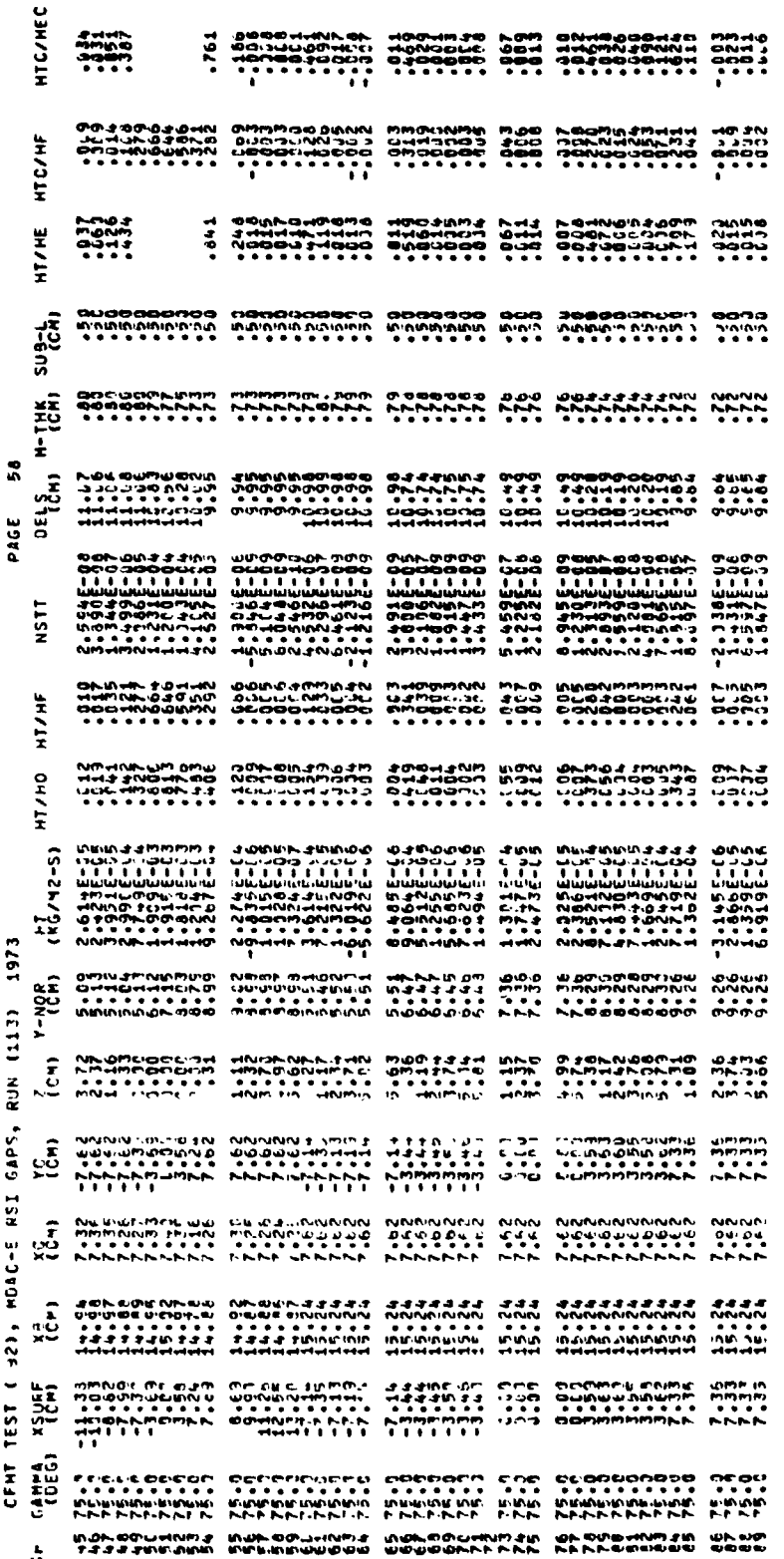
TAW/TT =0.895 FOR MT/MO
XSURF = SURFACE DISTANCE (FLOW DIRECTION) OR 90 DEG TO EDGE
MT/ME, GAP HEATING RATIOED TO EDGE AT TILE TOP
MTC/HEC, CONDUCTION CORRECTED MT/HE

TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE LEE
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER
RATIOED TO FLAT PLATE

SPECIFIC HEAT CORRECTED

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	MT (KG/M2-S)	MT/MO	MT/NF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	MT/ME	MTC/HF	MTC/HEC
1	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
2	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
3	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
4	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
5	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
6	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
7	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
8	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
9	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
10	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
11	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
12	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
13	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
14	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
15	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
16	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
17	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
18	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
19	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
20	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
21	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
22	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
23	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
24	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
25	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
26	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
27	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
28	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
29	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
30	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
31	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
32	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
33	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
34	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
35	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
36	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
37	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
38	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
39	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
40	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
41	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
42	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
43	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
44	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
45	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
46	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
47	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
48	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
49	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
50	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
51	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
52	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
53	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
54	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
55	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
56	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
57	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
58	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
59	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
60	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
61	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
62	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
63	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
64	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
65	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
66	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
67	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
68	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
69	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
70	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
71	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
72	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
73	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
74	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
75	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
76	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
77	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
78	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
79	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
80	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
81	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
82	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
83	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
84	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
85	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
86	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
87	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
88	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
89	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
90	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
91	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
92	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
93	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
94	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
95	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
96	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
97	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
98	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
99	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
100	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
101	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
102	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
103	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
104	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
105	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
106	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
107	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
108	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
109	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
110	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
111	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
112	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009
113	75.0	-11.681	-11.681	-11.681	-7.662	1.330	-11.097	5.813E-04	.264	.004	4.949E+00	.114	.082	.558	.009	.044	.009

ORIGINAL PAGE IS
OF POOR QUALITY


CFMT TEST (32), MDAC-E RSI GAPS, RUN (113) 1973
PAGE 58
HTC/MEC
HTC/HF
HT/HE
SUB-L (CM)
M-THK (CM)
DELS (CM)
NSTT
HT/HF
HT/HO
RT (KG/M2-S)
Y-NOR (CM)
Z (CM)
YC (CM)
XC (CM)
XSURF (CM)
GAMMA (DEG)

GFHT TEST (92), MDAC-E RSI GAPS, RUN (114) 1973 PAGE 59

MACH = 1.250 IT = 9.983E+02(K)
RX EPS = 8.153E-12 PI = 5.188E+06(N/M2)
RL EPS = 8.390E-12 TI = 4.701E+01(K)
RE/METER = 3.299E+06 PI = 9.861E+01(N/M2)
HO = 2.619E+07(M/M2-K) (RHO VI) = 1.935E+01(KG/M2-S)
TW = 297.5 (K) GAP = .229 (CM)
STEP = -.169(CM) CONF =STAG

TAW/TT =0.895 FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 OR 90 DEG.) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	60.00	-13.39	7.62	-7.62	-7.62	5.70	-3.81	1.975E-05	.039	.027	1.437E-08	11.21	.81	.50	.115	.047	.014
10	60.00	-12.72	7.62	-7.62	-7.62	5.03	-3.81	2.147E-05	.010	.009	1.835E-08	11.21	.81	.50	.017	.008	.015
11	60.00	-11.34	7.62	-7.62	-7.62	3.74	-3.81	9.072E-06	.006	.006	4.995E-09	11.21	.81	.50	.011	.013	.006
12	60.00	-10.05	7.62	-7.62	-7.62	2.36	-3.81	1.335E-06	.011	.009	1.766E-09	11.21	.81	.50	.018	.001	.001
13	60.00	-8.81	7.62	-7.62	-7.62	1.14	-3.81	3.142E-05	.044	.038	1.170E-07	11.21	.81	.50	.075	.012	.022
14	60.00	-8.02	7.62	-7.62	-7.62	.33	-3.81	6.369E-04	.289	.251	1.554E-05	11.21	.81	.50	.489	.234	.441
15	60.00	-7.29	7.62	-7.62	-7.29	3.88	-3.65	1.440E-03	.592	.516	7.219E-05	11.23	.81	.50		.531	
16	60.00	-7.63	7.62	-7.62	-3.63	4.00	-1.82	2.769E-03	1.167	1.047	2.815E-04	11.47	.82	.50		1.052	
17	60.00	-7.63	7.62	-7.62	0.00	4.00	0.00	2.677E-03	1.131	1.038	2.677E-04	11.66	.83	.50		1.032	
18	60.00	-7.63	7.62	-7.62	3.54	4.00	1.77	2.576E-03	1.083	.972	2.433E-04	11.51	.83	.50		.979	
19	60.00	-7.27	7.62	-7.62	7.27	3.88	3.63	1.532E-03	.650	.578	8.593E-05	11.32	.82	.50		.566	
20	60.00	-7.09	7.62	-7.62	7.62	.44	3.81	5.247E-04	.000	.000	9.164E-26	11.29	.81	.50	.000	.000	.000
21	60.00	-6.72	7.62	-7.62	7.62	1.17	3.81	1.628E-04	.068	.059	5.931E-07	11.29	.81	.50	.103	.038	.067
22	60.00	-6.94	7.62	-7.62	7.62	2.39	3.81	1.247E-05	.013	.011	1.388E-08	11.29	.81	.50	.020	.005	.008
23	60.00	-11.25	7.62	-7.62	7.62	5.70	3.81	5.113E-05	.024	.003	1.709E-06	11.29	.81	.50	.006	.019	.033
24	60.00	-12.62	7.62	-7.62	7.62	5.97	3.81	1.028E-04	.084	.004	3.821E-08	11.29	.81	.50	.007	.037	.066
25	60.00	-11.29	7.62	-7.62	7.62	5.73	3.81	1.246E-04	.105	.804	4.897E-09	11.29	.81	.50	.607	.046	.081
26	60.00	-11.35	11.38	-7.62	-7.62	5.70	-.55	9.491E-06	.007	.006	5.514E-09	11.54	.83	.50	.011	.004	.006
27	60.00	-11.42	11.42	-7.62	-7.62	5.04	-.52	7.922E-06	.006	.005	3.980E-09	11.55	.83	.50	.009	.003	.005
28	60.00	-11.36	11.38	-7.62	-7.62	3.72	-.53	1.664E-05	.009	.008	1.311E-08	11.54	.83	.50	.014	.006	.011
29	60.00	-11.42	11.42	-7.62	-7.62	2.44	-.51	1.981E-05	.006	.006	-4.540E-09	11.55	.83	.50	.010	-.003	-.005
30	60.00	-10.62	11.43	-7.62	-7.62	1.16	-.49	2.142E-05	.039	.036	7.423E-08	11.55	.83	.50	.063	.038	.014
31	60.00	-7.24	11.43	-7.62	-7.24	.33	-.46	6.118E-04	.277	.252	1.492E-05	11.55	.83	.50	.442	.235	.452
32	60.00	-7.24	11.43	-7.62	-7.24	0.00	-.34	1.517E-03	.627	.569	8.387E-05	11.55	.83	.50		.583	
33	60.00	-7.24	11.43	-7.62	-3.71	0.00	1.54	2.791E-03	1.179	1.060	2.574E-04	11.62	.83	.50		1.063	
34	60.00	0.00	11.87	-7.62	0.00	0.00	3.42	2.472E-03	1.045	.920	2.209E-04	11.35	.82	.50		.921	
35	60.00	1.52	11.51	7.89	3.59	1.00	5.16	2.338E-03	.911	.857	1.996E-04	11.05	.83	.50		.861	
36	60.00	2.24	11.51	7.91	7.21	1.00	5.88	1.512E-03	.614	.492	7.185E-05	10.63	.77	.50		.516	
37	60.00	2.97	11.51	7.93	10.85	.37	7.09	7.431E-04	.336	.257	1.928E-05	10.27	.77	.50	.547	.259	.491
38	60.00	3.69	11.51	7.94	14.48	.37	7.81	1.315E-04	.067	.054	1.064E-06	10.08	.77	.50	.119	.028	.053
39	60.00	4.42	11.51	7.96	18.12	.37	8.53	2.441E-05	.012	.009	-4.265E-09	10.07	.77	.50	.024	-.003	-.005
40	60.00	5.14	11.51	7.98	21.75	1.00	9.26	2.214E-04	.084	.047	7.561E-08	10.17	.77	.50	.087	.007	.013
41	60.00	5.87	11.51	7.99	25.39	1.00	9.98	4.123E-04	.211	.117	2.492E-06	10.66	.77	.50	.201	.042	.079
42	60.00	6.59	11.51	8.01	29.02	1.00	10.70	6.335E-04	.324	.179	5.378E-06	10.66	.77	.50	.304	.065	.121
43	60.00	7.32	11.51	8.03	32.66	1.00	11.43	8.552E-04	.438	.242	1.027E-05	10.66	.77	.50	.410	.088	.164
44	60.00	8.04	11.51	8.04	36.29	1.00	12.15	1.092E-03	.559	.309	1.675E-05	10.66	.77	.50	.523	.112	.209
45	60.00	-11.57	14.05	7.33	-7.62	4.91	2.53	2.148E-05	.006	.005	1.093E-08	11.45	.82	.50	.010	.008	.026

CFHT TEST (921), PDAC-E PSI GAPS, RUN (115) 1973 PAGE 61

MACH = 17.296 TT = 9.196E+02(K)
RX E06 = 0.135E-02 PI = 5.116E+00(N/M2)
RE/E06 = 0.135E+06 TI = 4.233E+01(K)
RE/METER = 0.326E+06 (RHO V)1 = 9.437E+01(N/M2)
TOM = 299.6(K) GAP = 1.333E+01(KG/M2-S)
STEP = -0.165(CM) CONF =STAG .223 (CM)

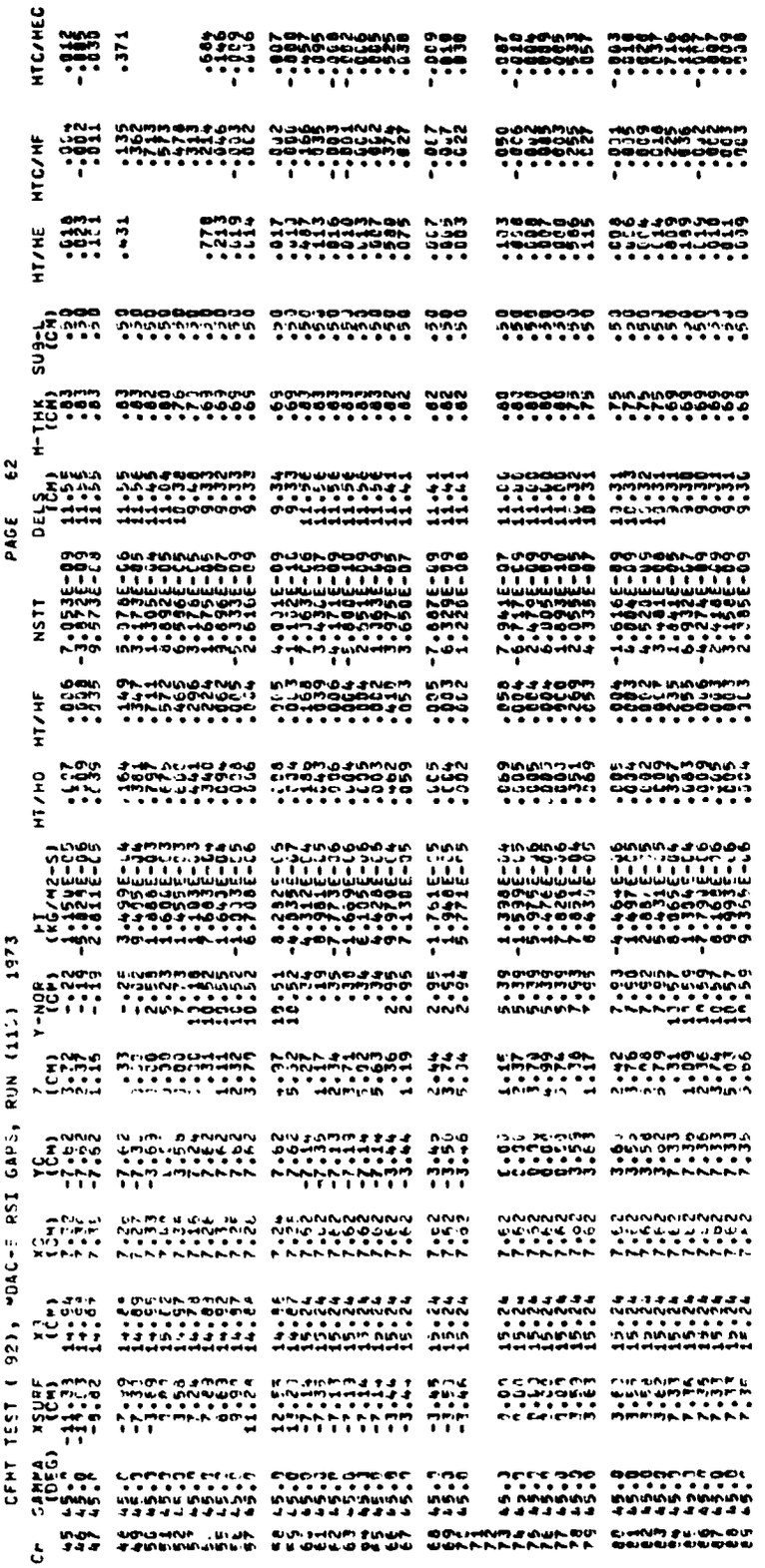
TAN/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE
(FLOW DIRECTION)
(0.0 OR 91.296)
HT/HF, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HE, GAP HEATING (CONDUCTION CORRECTED) HT/HE
HTC/HEC, CONDUCTION CORRECTED HT/HE

TILE COORDINATES(GAMMA=0.C
XO = X-COOR. FROM TILE LEAD
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

CP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	H-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	45.00	-13.29	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
2	45.00	-12.29	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
3	45.00	-11.29	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
4	45.00	-10.29	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
5	45.00	-9.29	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
6	45.00	-8.29	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
7	45.00	-7.29	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
8	45.00	-6.29	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
9	45.00	-5.29	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
10	45.00	-4.29	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
11	45.00	-3.29	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
12	45.00	-2.29	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
13	45.00	-1.29	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
14	45.00	-0.29	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
15	45.00	0.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
16	45.00	1.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
17	45.00	2.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
18	45.00	3.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
19	45.00	4.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
20	45.00	5.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
21	45.00	6.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
22	45.00	7.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
23	45.00	8.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
24	45.00	9.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
25	45.00	10.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
26	45.00	11.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
27	45.00	12.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
28	45.00	13.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
29	45.00	14.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
30	45.00	15.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
31	45.00	16.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
32	45.00	17.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
33	45.00	18.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
34	45.00	19.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
35	45.00	20.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
36	45.00	21.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
37	45.00	22.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
38	45.00	23.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
39	45.00	24.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
40	45.00	25.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
41	45.00	26.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
42	45.00	27.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
43	45.00	28.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
44	45.00	29.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
45	45.00	30.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
46	45.00	31.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
47	45.00	32.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
48	45.00	33.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
49	45.00	34.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
50	45.00	35.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
51	45.00	36.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
52	45.00	37.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
53	45.00	38.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
54	45.00	39.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
55	45.00	40.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
56	45.00	41.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
57	45.00	42.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
58	45.00	43.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
59	45.00	44.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
60	45.00	45.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
61	45.00	46.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
62	45.00	47.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
63	45.00	48.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
64	45.00	49.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
65	45.00	50.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
66	45.00	51.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
67	45.00	52.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
68	45.00	53.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
69	45.00	54.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
70	45.00	55.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
71	45.00	56.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
72	45.00	57.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
73	45.00	58.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
74	45.00	59.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
75	45.00	60.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
76	45.00	61.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
77	45.00	62.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
78	45.00	63.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
79	45.00	64.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
80	45.00	65.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
81	45.00	66.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
82	45.00	67.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
83	45.00	68.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
84	45.00	69.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
85	45.00	70.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
86	45.00	71.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
87	45.00	72.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
88	45.00	73.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
89	45.00	74.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
90	45.00	75.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
91	45.00	76.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
92	45.00	77.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
93	45.00	78.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
94	45.00	79.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
95	45.00	80.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
96	45.00	81.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
97	45.00	82.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
98	45.00	83.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
99	45.00	84.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
100	45.00	85.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
101	45.00	86.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
102	45.00	87.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
103	45.00	88.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
104	45.00	89.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
105	45.00	90.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846
106	45.00	91.71	7.62	7.62	-7.62	0.000	-2.54	2.866E-03	1.285	1.285	1.000	11.39	.62	.56	.615	.847	.846

3.4-229



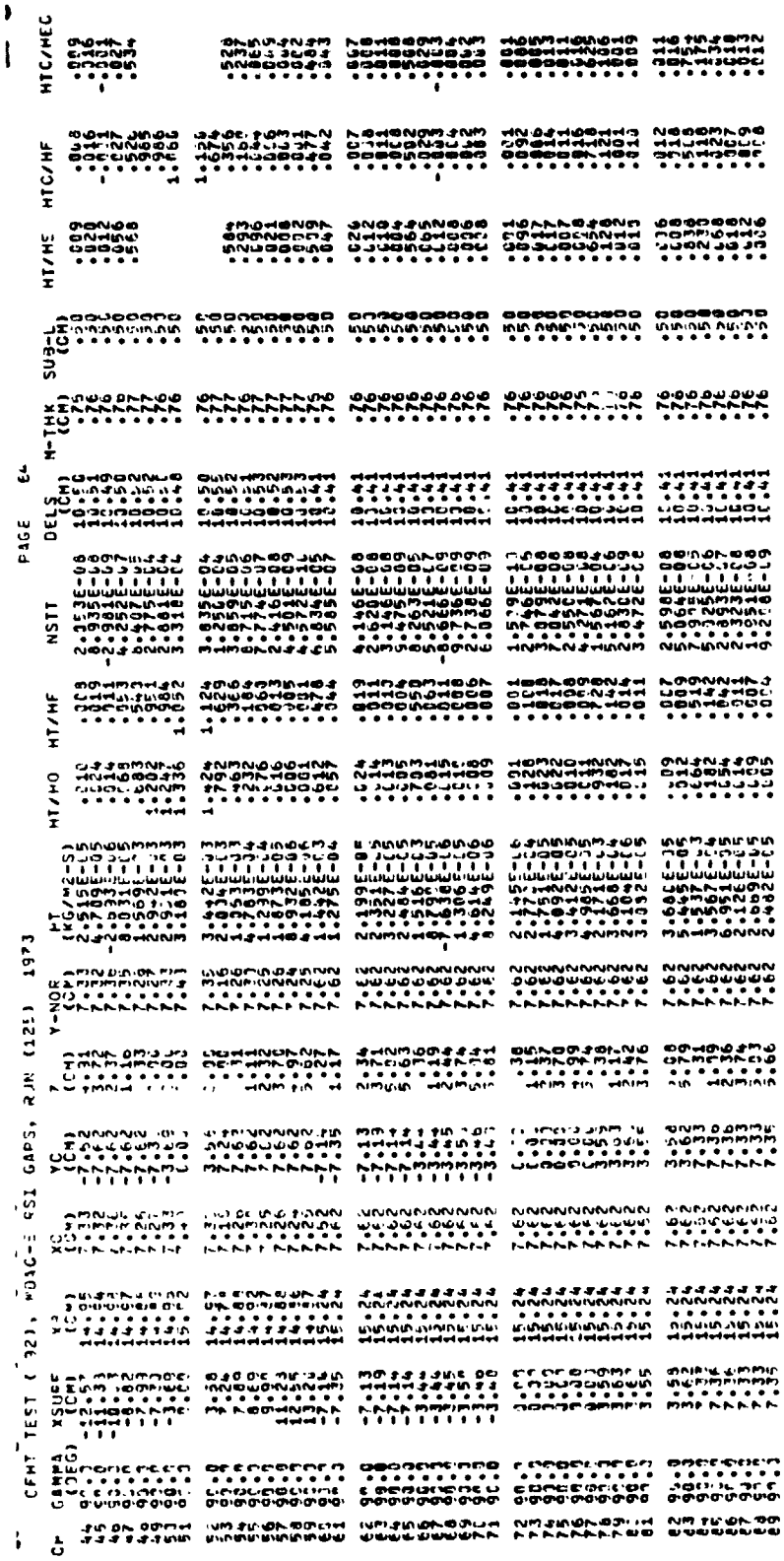
CFHT TEST (92), MDAC-E RSI GAPS, RUN (125) 1973 PAGE 63

MACH = 10.290 TI = 1.022E+03(K)
RX EQG = 7.746E-12 PI = 5.185E+06(N/M2)
RL EQG = 7.961E-12 T1 = 4.824E+01(K)
RE/METER = 3.134E+06 P1 = 9.785E+11(N/M2)
HO = 2.619E+07(N/M2-K) (RHO V)1 = 1.013E+01(KG/M2-S)
TW = 298.2 (K) GAP = .711 (CM)
STEP = 0.03)(CM) CONF =STAG

TAN/TT =0.995 FOR HT/HO TILE COORDINATES(GAMMA=C.0
XSURF =SURFACE DISTANCE X8 = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 OR 90 DEG) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CP	GAMMA (DEG)	XSURF (CM)	X8 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	90.0	-13.39	7.62	0.00	-7.62	5.70	0.00	3.176E-05	.510	.009	2.944E-08	11.56	.83	.50	.007	.012	.010
10	90.0	-12.72	7.62	0.00	-7.62	5.03	0.00	2.666E-05	.311	.010	2.527E-08	11.56	.83	.50	.006	.010	.008
11	90.0	-11.34	7.62	0.00	-7.62	3.74	0.00	1.920E-05	.412	.011	2.122E-08	11.56	.83	.50	.009	.007	.006
12	90.0	-10.05	7.62	0.00	-7.62	2.36	0.00	1.585E-06	.220	.019	2.776E-09	11.56	.83	.50	.015	-.001	-.000
13	90.0	-8.93	7.62	0.00	-7.62	1.14	0.00	3.323E-04	.170	.195	5.098E-06	11.56	.83	.50	.122	.128	.100
14	90.0	-8.02	7.62	0.00	-7.62	.33	0.00	2.218E-03	.956	.871	1.914E-04	11.56	.83	.50	.687	.855	.669
15	90.0	-7.29	7.62	0.00	-7.29	.00	0.00	3.317E-03	1.392	1.267	4.166E-04	11.56	.83	.50		1.278	
16	90.0	-3.63	7.62	0.00	-3.63	3.66	0.00	3.894E-03	1.291	1.175	3.559E-04	11.56	.83	.50		1.177	
17	90.0	.04	7.62	0.00	.04	0.00	0.00	2.722E-03	1.162	1.058	2.855E-04	11.56	.83	.50		1.049	
18	90.0	3.54	7.62	0.00	3.54	3.58	0.00	2.504E-03	1.088	.990	2.459E-04	11.56	.83	.50		.965	
19	90.0	7.27	7.62	0.00	7.27	7.00	0.00	1.393E-03	.587	.534	6.985E-05	11.56	.83	.50		.502	
20																	
21	90.0	8.72	7.62	0.00	7.62	1.17	0.00	2.330E-05	.010	.009	2.191E-08	11.56	.83	.50	.018	.009	.010
22																	
23																	
24	90.0	12.62	7.62	0.00	7.62	5.27	0.00	-7.230E-05	.108	.007	-4.337E-08	11.56	.83	.50	.013	-.020	-.015
25	90.0	13.28	7.62	0.00	7.62	5.73	0.00	-8.509E-05	.008	.008	-6.458E-08	11.56	.83	.50	.014	-.033	-.025
26	90.0	-13.35	11.38	3.76	-7.62	5.70	3.76	2.142E-05	.008	.007	1.485E-08	11.30	.81	.50	.005	.008	.006
27	90.0	-12.68	11.42	3.80	-7.62	5.04	3.80	1.874E-05	.005	.005	4.807E-09	11.29	.81	.50	.003	.004	.003
28	90.0	-11.36	11.38	3.76	-7.62	3.72	3.76	1.604E-05	.011	.010	1.665E-08	11.30	.81	.50	.010	.006	.005
29	90.0	-10.06	11.43	3.81	-7.62	2.44	3.81	-3.778E-06	.017	.015	-5.591E-09	11.29	.81	.50	-.011	-.001	-.001
30	90.0	-8.93	11.43	3.81	-7.62	1.16	3.81	1.664E-04	.104	.091	1.497E-06	11.29	.81	.50	.069	.062	.046
31	90.0	-7.97	11.43	3.81	-7.62	.33	3.81	2.196E-03	.947	.828	1.803E-04	11.28	.81	.50	.627	.813	.601
32	90.0	-7.24	11.41	3.79	-7.24	.00	3.79	3.646E-03	1.572	1.323	4.784E-04	11.30	.81	.50		1.351	
33	90.0	-3.71	11.54	3.92	-3.71	.00	3.92	3.133E-03	1.311	1.144	3.516E-04	11.28	.81	.50		1.146	
34	90.0	.03	11.57	3.95	.03	3.00	3.95	2.836E-03	1.187	1.036	2.881E-04	11.27	.81	.50		1.036	
35	90.0	3.53	11.61	3.99	3.53	3.00	3.99	2.669E-03	1.128	.985	2.607E-04	11.26	.81	.50		.967	
36	90.0	7.24	11.36	3.74	7.24	3.00	3.74	1.643E-03	.656	.575	9.344E-05	11.30	.81	.50		.606	
37	90.0	7.97	11.41	3.79	7.62	.37	3.79	4.276E-04	.197	.173	7.322E-06	11.30	.81	.50	.321	.128	.261
38	90.0	8.72	11.36	3.74	7.62	1.13	3.74	1.053E-04	.077	.067	7.025E-07	11.30	.81	.50	.117	.039	.064
39	90.0	9.93	11.42	3.80	7.62	2.35	3.80	-1.231E-05	.020	.017	-2.091E-08	11.29	.81	.50	.030	-.005	-.008
40	90.0	11.22	11.42	3.80	7.62	3.62	3.80	2.208E-05	.009	.008	1.682E-08	11.30	.81	.50	.013	.008	.013
41	90.0	12.64	11.29	3.67	7.62	5.14	3.67	1.858E-05	.019	.019	1.568E-08	11.31	.82	.50	.015	.007	.011
42	90.0	13.29	11.34	3.72	7.62	5.68	3.72	3.629E-05	.011	.010	3.568E-08	11.32	.82	.50	.017	.013	.022
43	90.0	13.37	14.07	6.45	7.62	5.76	7.35	2.894E-05	.106	.004	9.216E-09	11.56	.76	.50	.005	.007	.007



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SPECIFIC HEAT CORRECTED

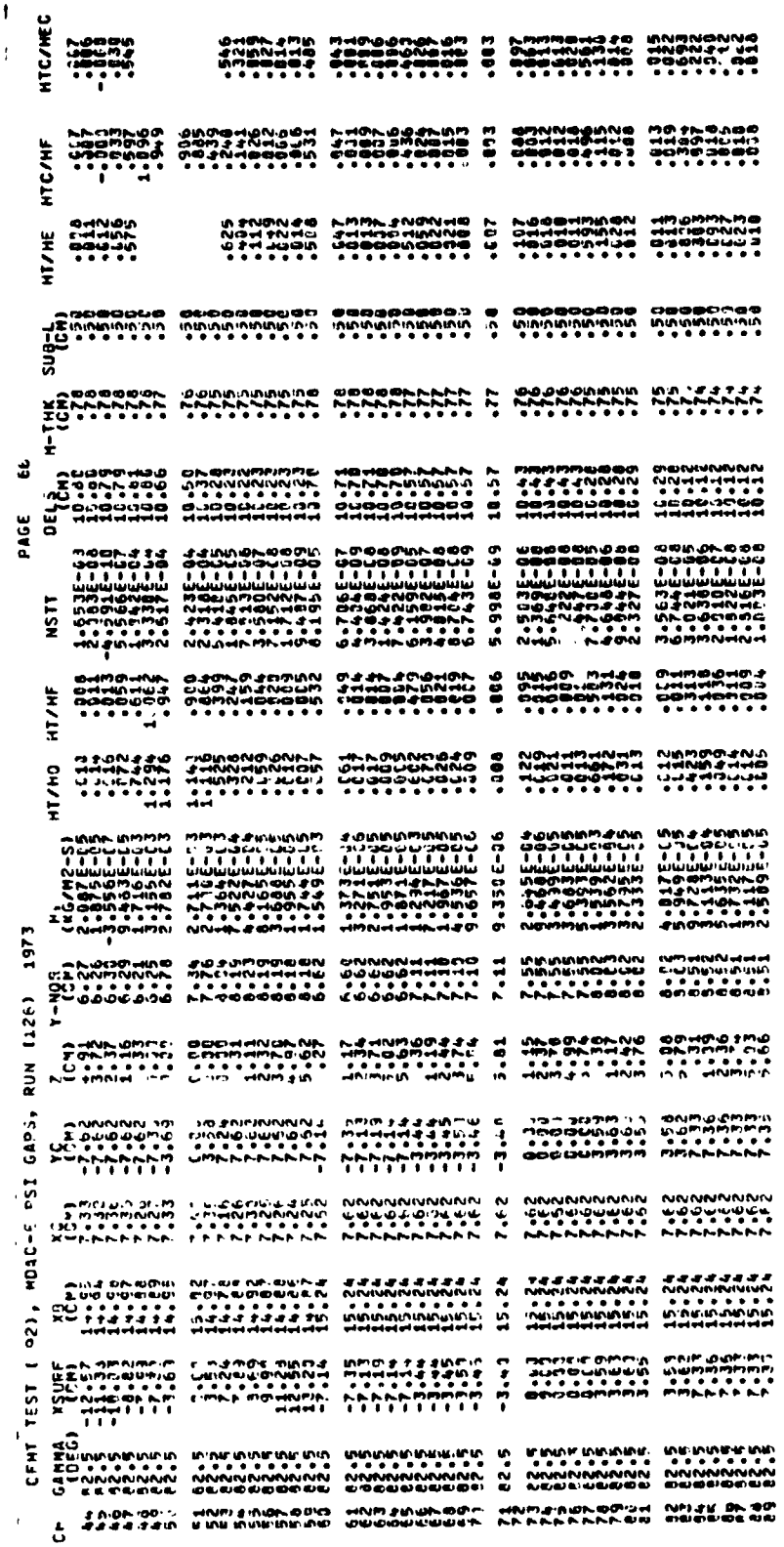
TILE COORDINATES(GAMMA=0.)
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

HT/HF GAP HEATING RATIOED TO EDGE AI TILE TOP CORRECTED RATIOED TO FLAT PLATE
HTC/HEC. CONDUCTION CORRECTED HT/HE

	XSURF (CM)	X3 (CM)	XC (CM)	Z (CM)	Y-NOD (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-TMK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	-132.92	7.62	-7.62	5.79	-.99	3.5674E-05	.613	.612	4.1635E-08	11.52	.63	.58	.638	.314	.818
2	-132.92	7.62	-7.62	5.33	-.99	1.8861E-05	.688	.687	4.1355E-08	11.52	.63	.58	.685	.307	.885
3	-132.92	7.62	-7.62	4.87	-.99	1.0000E-05	.775	.774	4.1226E-08	11.52	.63	.58	.716	.307	.913
4	-132.92	7.62	-7.62	4.41	-.99	5.3033E-06	.873	.872	4.1190E-08	11.52	.63	.58	.804	.307	1.004
5	-132.92	7.62	-7.62	3.95	-.99	2.8125E-06	.983	.982	4.1180E-08	11.52	.63	.58	.904	.307	1.098
6	-132.92	7.62	-7.62	3.49	-.99	1.4918E-06	1.107	1.106	4.1177E-08	11.52	.63	.58	1.018	.307	1.213
7	-132.92	7.62	-7.62	3.03	-.99	7.9125E-07	1.247	1.245	4.1176E-08	11.52	.63	.58	1.146	.307	1.344
8	-132.92	7.62	-7.62	2.57	-.99	4.1972E-07	1.404	1.402	4.1175E-08	11.52	.63	.58	1.290	.307	1.488
9	-132.92	7.62	-7.62	2.11	-.99	2.2262E-07	1.581	1.579	4.1175E-08	11.52	.63	.58	1.453	.307	1.651
10	-132.92	7.62	-7.62	1.65	-.99	1.1806E-07	1.780	1.778	4.1175E-08	11.52	.63	.58	1.636	.307	1.834
11	-132.92	7.62	-7.62	1.19	-.99	6.2610E-08	2.005	2.003	4.1175E-08	11.52	.63	.58	1.843	.307	2.041
12	-132.92	7.62	-7.62	.73	-.99	3.3210E-08	2.258	2.255	4.1175E-08	11.52	.63	.58	2.076	.307	2.274
13	-132.92	7.62	-7.62	.27	-.99	1.7613E-08	2.543	2.539	4.1175E-08	11.52	.63	.58	2.338	.307	2.536
14	-132.92	7.62	-7.62	-.19	-.99	9.3424E-09	2.864	2.859	4.1175E-08	11.52	.63	.58	2.633	.307	2.831
15	-132.92	7.62	-7.62	-.65	-.99	4.9546E-09	3.225	3.220	4.1175E-08	11.52	.63	.58	2.965	.307	3.163
16	-132.92	7.62	-7.62	-1.11	-.99	2.6276E-09	3.631	3.626	4.1175E-08	11.52	.63	.58	3.339	.307	3.537
17	-132.92	7.62	-7.62	-1.57	-.99	1.3934E-09	4.089	4.083	4.1175E-08	11.52	.63	.58	3.760	.307	3.958
18	-132.92	7.62	-7.62	-2.03	-.99	7.3897E-10	4.604	4.597	4.1175E-08	11.52	.63	.58	4.234	.307	4.432
19	-132.92	7.62	-7.62	-2.49	-.99	3.9195E-10	5.184	5.176	4.1175E-08	11.52	.63	.58	4.768	.307	4.966
20	-132.92	7.62	-7.62	-2.95	-.99	2.0785E-10	5.836	5.827	4.1175E-08	11.52	.63	.58	5.368	.307	5.566
1	-131.34	7.62	-7.62	5.79	-.99	3.5674E-05	.613	.612	4.1635E-08	11.52	.63	.58	.638	.314	.818
2	-131.34	7.62	-7.62	5.33	-.99	1.8861E-05	.688	.687	4.1355E-08	11.52	.63	.58	.685	.307	.885
3	-131.34	7.62	-7.62	4.87	-.99	1.0000E-05	.775	.774	4.1226E-08	11.52	.63	.58	.716	.307	.913
4	-131.34	7.62	-7.62	4.41	-.99	5.3033E-06	.873	.872	4.1190E-08	11.52	.63	.58	.804	.307	1.004
5	-131.34	7.62	-7.62	3.95	-.99	2.8125E-06	.983	.982	4.1180E-08	11.52	.63	.58	.904	.307	1.098
6	-131.34	7.62	-7.62	3.49	-.99	1.4918E-06	1.107	1.106	4.1177E-08	11.52	.63	.58	1.018	.307	1.213
7	-131.34	7.62	-7.62	3.03	-.99	7.9125E-07	1.247	1.245	4.1176E-08	11.52	.63	.58	1.146	.307	1.344
8	-131.34	7.62	-7.62	2.57	-.99	4.1972E-07	1.404	1.402	4.1175E-08	11.52	.63	.58	1.290	.307	1.488
9	-131.34	7.62	-7.62	2.11	-.99	2.2262E-07	1.581	1.579	4.1175E-08	11.52	.63	.58	1.453	.307	1.651
10	-131.34	7.62	-7.62	1.65	-.99	1.1806E-07	1.780	1.778	4.1175E-08	11.52	.63	.58	1.636	.307	1.834
11	-131.34	7.62	-7.62	1.19	-.99	6.2610E-08	2.005	2.003	4.1175E-08	11.52	.63	.58	1.843	.307	2.041
12	-131.34	7.62	-7.62	.73	-.99	3.3210E-08	2.258	2.255	4.1175E-08	11.52	.63	.58	2.076	.307	2.274
13	-131.34	7.62	-7.62	.27	-.99	1.7613E-08	2.543	2.539	4.1175E-08	11.52	.63	.58	2.338	.307	2.536
14	-131.34	7.62	-7.62	-.19	-.99	9.3424E-09	2.864	2.859	4.1175E-08	11.52	.63	.58	2.633	.307	2.831
15	-131.34	7.62	-7.62	-.65	-.99	4.9546E-09	3.225	3.220	4.1175E-08	11.52	.63	.58	2.965	.307	3.163
16	-131.34	7.62	-7.62	-1.11	-.99	2.6276E-09	3.631	3.626	4.1175E-08	11.52	.63	.58	3.339	.307	3.537
17	-131.34	7.62	-7.62	-1.57	-.99	1.3934E-09	4.089	4.083	4.1175E-08	11.52	.63	.58	3.760	.307	3.958
18	-131.34	7.62	-7.62	-2.03	-.99	7.3897E-10	4.604	4.597	4.1175E-08	11.52	.63	.58	4.234	.307	4.432
19	-131.34	7.62	-7.62	-2.49	-.99	3.9195E-10	5.184	5.176	4.1175E-08	11.52	.63	.58	4.768	.307	4.966
20	-131.34	7.62	-7.62	-2.95	-.99	2.0785E-10	5.836	5.827	4.1175E-08	11.52	.63	.58	5.368	.307	5.566
1	-129.76	7.62	-7.62	5.79	-.99	3.5674E-05	.613	.612	4.1635E-08	11.52	.63	.58	.638	.314	.818
2	-129.76	7.62	-7.62	5.33	-.99	1.8861E-05	.688	.687	4.1355E-08	11.52	.63	.58	.685	.307	.885
3	-129.76	7.62	-7.62	4.87	-.99	1.0000E-05	.775	.774	4.1226E-08	11.52	.63	.58	.716	.307	.913
4	-129.76	7.62	-7.62	4.41	-.99	5.3033E-06	.873	.872	4.1190E-08	11.52	.63	.58	.804	.307	1.004
5	-129.76	7.62	-7.62	3.95	-.99	2.8125E-06	.983	.982	4.1180E-08	11.52	.63	.58	.904	.307	1.098
6	-129.76	7.62	-7.62	3.49	-.99	1.4918E-06	1.107	1.106	4.1177E-08	11.52	.63	.58	1.018	.307	1.213
7	-129.76	7.62	-7.62	3.03	-.99	7.9125E-07	1.247	1.245	4.1176E-08	11.52	.63	.58	1.146	.307	1.344
8	-129.76	7.62	-7.62	2.57	-.99	4.1972E-07	1.404	1.402	4.1175E-08	11.52	.63	.58	1.290	.307	1.488
9	-129.76	7.62	-7.62	2.11	-.99	2.2262E-07	1.581	1.579	4.1175E-08	11.52	.63	.58	1.453	.307	1.651
10	-129.76	7.62	-7.62	1.65	-.99	1.1806E-07	1.780	1.778	4.1175E-08	11.52	.63	.58	1.636	.307	1.834
11	-129.76	7.62	-7.62	1.19	-.99	6.2610E-08	2.005	2.003	4.1175E-08	11.52	.63	.58	1.843	.307	2.041
12	-129.76	7.62	-7.62	.73	-.99	3.3210E-08	2.258	2.255	4.1175E-08	11.52	.63	.58	2.076	.307	2.274
13	-129.76	7.62	-7.62	.27	-.99	1.7613E-08	2.543	2.539	4.1175E-08	11.52	.63	.58	2.338	.307	2.536
14	-129.76	7.62	-7.62	-.19	-.99	9.3424E-09	2.864	2.859	4.1175E-08	11.52	.63	.58	2.633	.307	2.831
15	-129.76	7.62	-7.62	-.65	-.99	4.9546E-09	3.225	3.220	4.1175E-08	11.52	.63	.58	2.965	.307	3.163
16	-129.76	7.62	-7.62	-1.11	-.99	2.6276E-09	3.631	3.626	4.1175E-08	11.52	.63	.58	3.339	.307	3.537
17	-129.76	7.62	-7.62	-1.57	-.99	1.3934E-09	4.089	4.083	4.1175E-08	11.52	.63	.58	3.760	.307	3.958
18	-129.76	7.62	-7.62	-2.03	-.99	7.3897E-10	4.604	4.597	4.1175E-08	11.52	.63	.58	4.234	.307	4.432
19	-129.76	7.62	-7.62	-2.49	-.99	3.9195E-10	5.184	5.176	4.1175E-08	11.52	.63	.58	4.768	.307	4.966
20	-129.76	7.62	-7.62	-2.95	-.99	2.0785E-10	5.836	5.827	4.1175E-08	11.52	.63	.58	5.368	.307	5.566

3.4-251

ORIGINAL PAGE IS
OF POOR QUALITY



CFMT TEST (92), "DAC-E RSI GAPS, RUN (127) 1973 PAGE 67

MACH = 1.230E+01 TT = 5.188E+02(K)
REX/METER = 8.032E-12 P1 = 5.155E+01(N/M2)
RE/METER = 9.241E+06 T1 = 1.733E+02(K)
RHO = 2.610E-02 (RHO V)1 = 1.002E+01(KG/M2-S)
TIM = 2.93E-03 (SEC) GAP = .711 (CM)
STEP = 2.00E-03(SEC) CONF = STAG

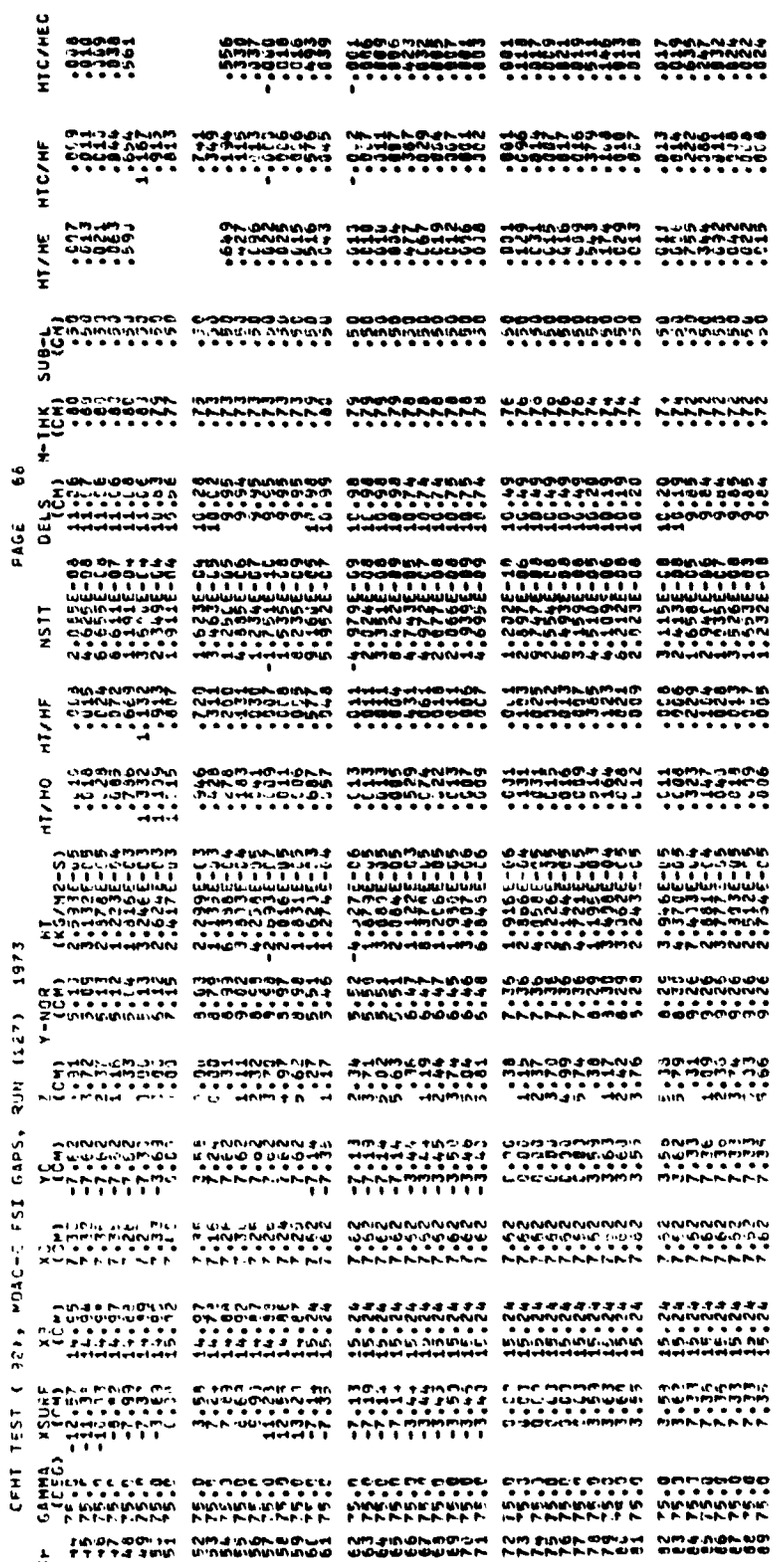
TAW/TT =0.896 FOR HT/HC
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (ZERO OR 90 DEG.)
HT/HF = GAP HEATING RATIO DED TO EDGE AT TILE TOP
HTC/HF = GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HC = CONDUCTION CORRECTED HT/HC

TILE COORDINATES(GAMMA=0.0
X9 = X-COOR. FROM TILE LEE
YC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

CP	GAMMA (DEG)	XSURF (CM)	XG (CM)	YC (CM)	Z (CM)	Y-NGP (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-TMK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	0.0	-13.422	7.62	-7.62	1.27	1.97	7.328E-05	.845	.010	1.632E-08	11.45	.02	.50	.007	.111	.888
10	0.0	-12.422	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
21	0.0	-11.422	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
31	0.0	-10.422	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
41	0.0	-9.422	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
51	0.0	-8.422	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
61	0.0	-7.422	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
71	0.0	-6.422	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
81	0.0	-5.422	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
91	0.0	-4.422	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
101	0.0	-3.422	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
111	0.0	-2.422	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
121	0.0	-1.422	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
131	0.0	-.422	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
141	0.0	.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
151	0.0	1.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
161	0.0	2.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
171	0.0	3.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
181	0.0	4.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
191	0.0	5.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
201	0.0	6.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
211	0.0	7.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
221	0.0	8.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
231	0.0	9.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
241	0.0	10.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
251	0.0	11.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
261	0.0	12.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
271	0.0	13.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
281	0.0	14.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
291	0.0	15.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
301	0.0	16.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
311	0.0	17.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
321	0.0	18.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
331	0.0	19.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
341	0.0	20.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
351	0.0	21.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
361	0.0	22.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
371	0.0	23.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
381	0.0	24.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
391	0.0	25.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
401	0.0	26.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
411	0.0	27.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
421	0.0	28.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885
431	0.0	29.578	7.62	-7.62	1.27	1.97	7.328E-05	.845	.008	1.632E-08	11.45	.02	.50	.006	.108	.885

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CFHT TEST (92), MDAC-E RSI GAPS, RUN (123) 1973 PAGE 69

MACH = 1.230 PT = 5.108E+03(N/M2) TT = 1.130E+03(K)
REX/FT = 6.534E+06 P1 = 9.274E+04(N/M2) T1 = 1.111E+03(K)
REL/METER = 1.054E+07 RHO V11 = 9.229E+01(KG/M2-S)
RNO = 2.000E+00 (W/M2-K) GAP = 2.111 (CM) CONF =STAG
TME = 299.4 (K) STEP = 0.000 (CM)

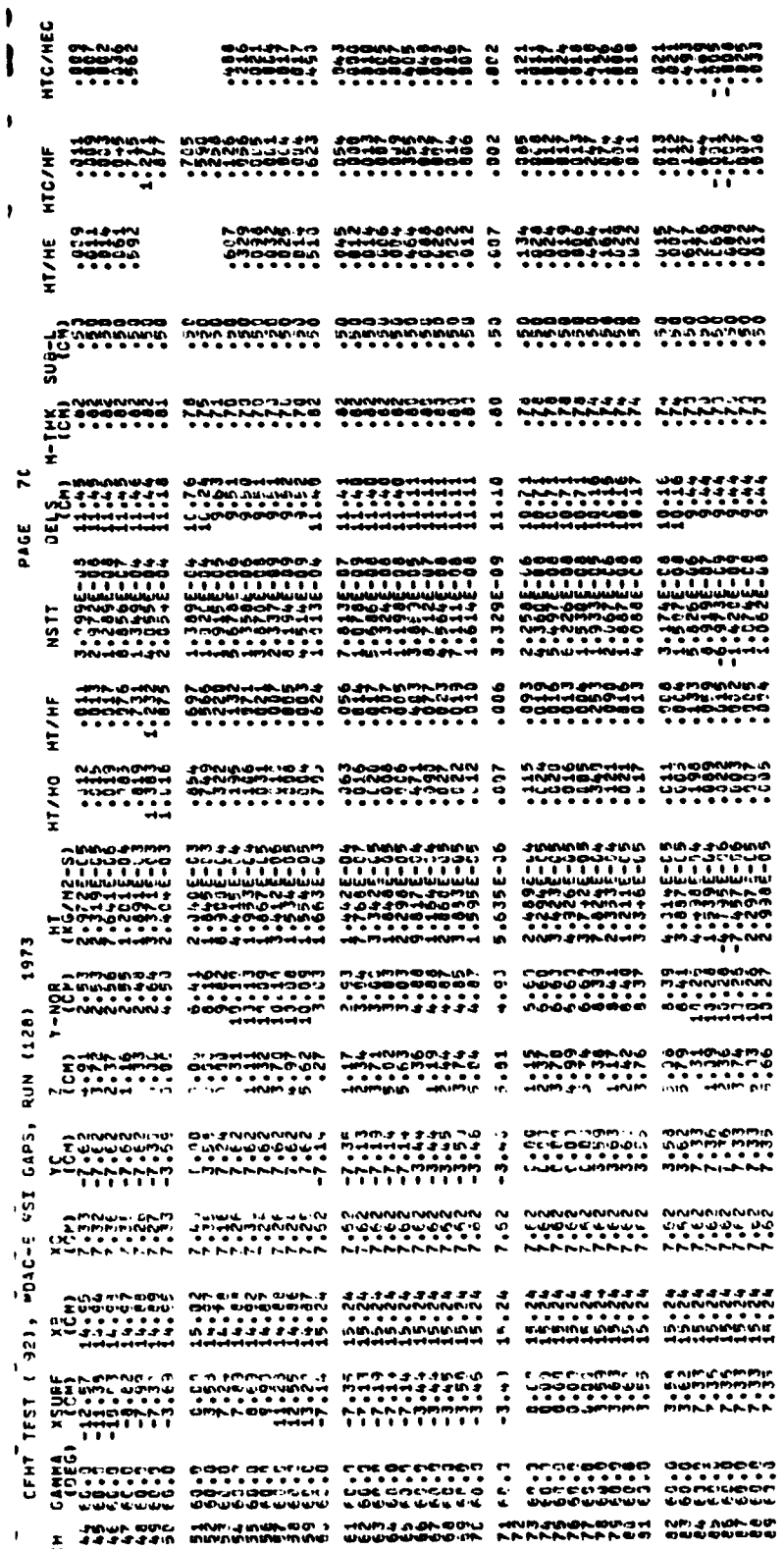
TAN/TT =0.895 FCR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION)
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HEC, CONDUCTION CORRECTED HT/HE

TILE COORDINATES(GAMMA=0.0
X9 = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER
SPECIFIC HEAT CORRECTED

CF	GAMMA (DEG)	XSURF (CM)	X9 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SU3-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
2	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
3	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
4	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
5	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
6	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
7	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
8	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
9	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
10	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
11	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
12	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
13	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
14	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
15	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
16	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
17	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
18	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
19	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
20	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
21	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
22	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
23	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
24	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
25	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
26	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
27	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
28	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
29	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
30	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
31	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
32	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
33	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
34	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
35	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
36	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
37	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
38	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
39	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
40	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
41	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
42	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
43	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
44	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
45	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
46	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
47	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
48	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
49	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
50	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
51	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
52	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
53	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
54	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
55	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
56	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
57	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
58	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
59	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
60	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
61	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
62	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813
63	90.0	-112.732	7.662	-7.662	-7.662	55.703	-3.861	2.766E+03	.813	.812	3.068E-06	111.21	.81	.508	.806	.812	.813

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ORIGINAL PAGE IS
OF POOR QUALITY



CFHT TEST (92), MOAC-E RSI GAPS, RUN (129) 1973 PAGE 71

MACH = 17.232E-12 TT = 9.884E+02(K)
RX = 6.3[illegible]E-12 DT = 5.168E+06(N/M2)
RE/FT = 1.[illegible]E-12 T1 = 4.[illegible]E+01(K)
RHO = 2.[illegible]E+00 (KG/M2-K) P2 = 9.823E+01(N/M2)
TW = 2.[illegible]E+00 (K) (RHO V)1 = 1.931E-01(KG/M2-S)
STEP = 294.[illegible] (CM) GAP =TILE (CM)
CONF =STAG

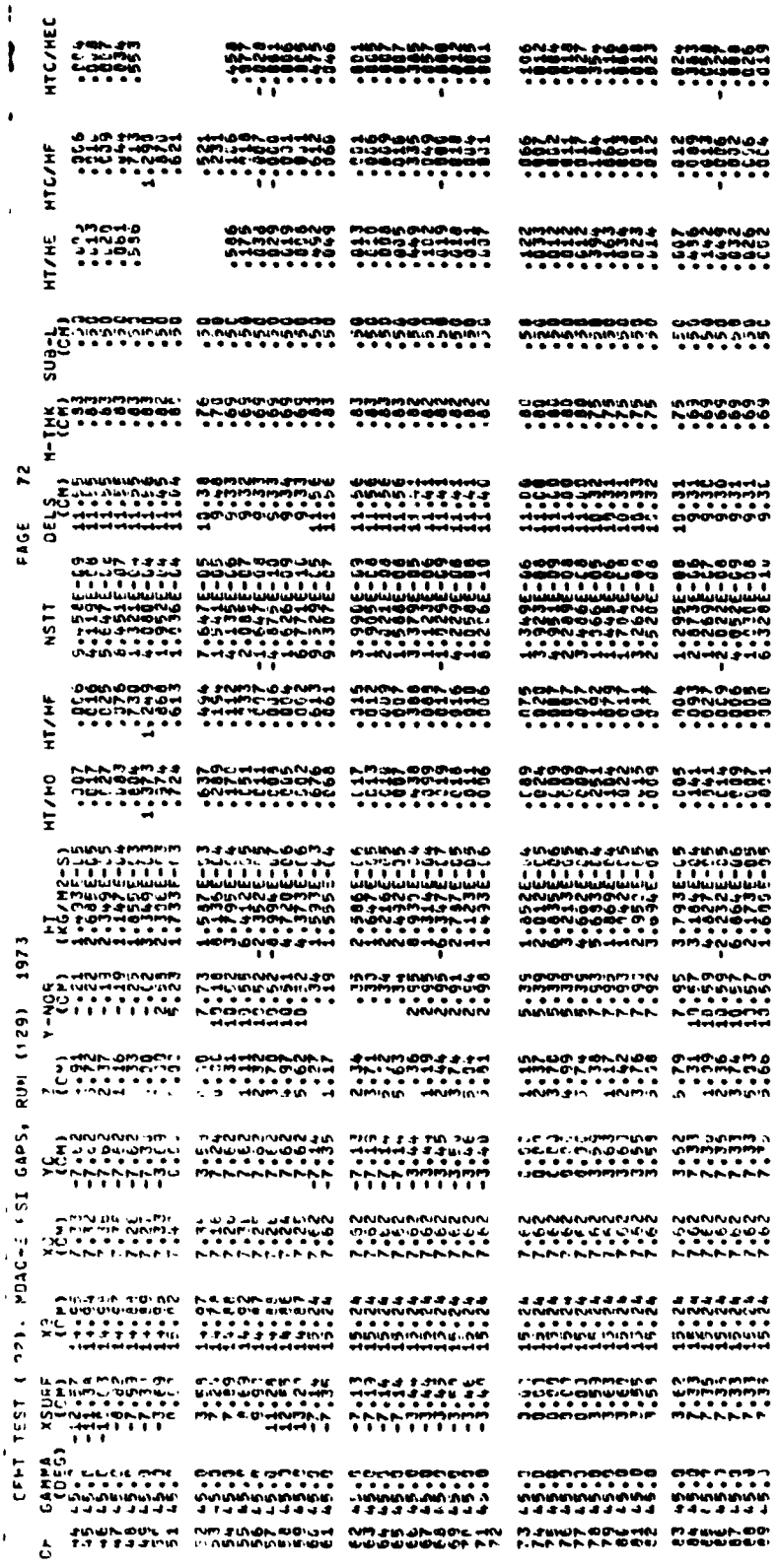
TILE COORDINATES(GAMMA=0.0
X3 = X-COOR. FROM TILE LE
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

TAN/TT =0.[illegible] FOR HT/HO
XSURF = SURFACE DISTANCE
(FLOW DIRECTION)
HT/HE, GAP HEATING RATIO DUE TO EDGE AT TILE TOP
HTC/HEC, GAP HEATING CONDUCTION CORRECTED TO FLAT PLATE
HTC/HE, CONDUCTION CORRECTED HT/HE

SPECIFIC HEAT CORRECTED

CR	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-TNK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	45.00	-13.72	7.62	[illegible]	-7.62	5.79	-5.35	3.332E-05	.118	.815	3.221E-08	40.68	.79	.50	.808	.811	.809
12	45.00	-12.72	7.62	[illegible]	-7.62	5.63	-5.39	4.873E-05	.118	.815	3.221E-08	40.68	.79	.50	.808	.811	.809
[illegible]																	
45	45.00	-11.72	7.62	[illegible]	-7.62	3.74	-5.39	4.257E-05	.025	.815	3.221E-08	40.68	.79	.50	.808	.811	.809
48	45.00	-10.72	7.62	[illegible]	-7.62	2.41	-5.39	3.769E-05	.025	.815	3.221E-08	40.68	.79	.50	.808	.811	.809
[illegible]																	
81	45.00	-9.72	7.62	[illegible]	-7.62	1.17	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
84	45.00	-8.72	7.62	[illegible]	-7.62	.94	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
117	45.00	-7.72	7.62	[illegible]	-7.62	.71	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
120	45.00	-6.72	7.62	[illegible]	-7.62	.48	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
153	45.00	-5.72	7.62	[illegible]	-7.62	.25	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
156	45.00	-4.72	7.62	[illegible]	-7.62	.02	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
189	45.00	-3.72	7.62	[illegible]	-7.62	-.20	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
192	45.00	-2.72	7.62	[illegible]	-7.62	-.43	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
225	45.00	-1.72	7.62	[illegible]	-7.62	-.66	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
228	45.00	-.72	7.62	[illegible]	-7.62	-.89	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
261	45.00	.28	7.62	[illegible]	-7.62	-1.12	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
264	45.00	1.28	7.62	[illegible]	-7.62	-1.35	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
297	45.00	2.28	7.62	[illegible]	-7.62	-1.58	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
300	45.00	3.28	7.62	[illegible]	-7.62	-1.81	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
333	45.00	4.28	7.62	[illegible]	-7.62	-2.04	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
336	45.00	5.28	7.62	[illegible]	-7.62	-2.27	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
369	45.00	6.28	7.62	[illegible]	-7.62	-2.50	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
372	45.00	7.28	7.62	[illegible]	-7.62	-2.73	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
405	45.00	8.28	7.62	[illegible]	-7.62	-2.96	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
408	45.00	9.28	7.62	[illegible]	-7.62	-3.19	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
441	45.00	10.28	7.62	[illegible]	-7.62	-3.42	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
444	45.00	11.28	7.62	[illegible]	-7.62	-3.65	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
477	45.00	12.28	7.62	[illegible]	-7.62	-3.88	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
480	45.00	13.28	7.62	[illegible]	-7.62	-4.11	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
513	45.00	14.28	7.62	[illegible]	-7.62	-4.34	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
516	45.00	15.28	7.62	[illegible]	-7.62	-4.57	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
549	45.00	16.28	7.62	[illegible]	-7.62	-4.80	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
552	45.00	17.28	7.62	[illegible]	-7.62	-5.03	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
585	45.00	18.28	7.62	[illegible]	-7.62	-5.26	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
588	45.00	19.28	7.62	[illegible]	-7.62	-5.49	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
621	45.00	20.28	7.62	[illegible]	-7.62	-5.72	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
624	45.00	21.28	7.62	[illegible]	-7.62	-5.95	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
657	45.00	22.28	7.62	[illegible]	-7.62	-6.18	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
660	45.00	23.28	7.62	[illegible]	-7.62	-6.41	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
693	45.00	24.28	7.62	[illegible]	-7.62	-6.64	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
696	45.00	25.28	7.62	[illegible]	-7.62	-6.87	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
729	45.00	26.28	7.62	[illegible]	-7.62	-7.10	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
732	45.00	27.28	7.62	[illegible]	-7.62	-7.33	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
765	45.00	28.28	7.62	[illegible]	-7.62	-7.56	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
768	45.00	29.28	7.62	[illegible]	-7.62	-7.79	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
801	45.00	30.28	7.62	[illegible]	-7.62	-8.02	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
804	45.00	31.28	7.62	[illegible]	-7.62	-8.25	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
837	45.00	32.28	7.62	[illegible]	-7.62	-8.48	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
840	45.00	33.28	7.62	[illegible]	-7.62	-8.71	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
873	45.00	34.28	7.62	[illegible]	-7.62	-8.94	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
876	45.00	35.28	7.62	[illegible]	-7.62	-9.17	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
909	45.00	36.28	7.62	[illegible]	-7.62	-9.40	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
912	45.00	37.28	7.62	[illegible]	-7.62	-9.63	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
945	45.00	38.28	7.62	[illegible]	-7.62	-9.86	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
948	45.00	39.28	7.62	[illegible]	-7.62	-10.09	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
981	45.00	40.28	7.62	[illegible]	-7.62	-10.32	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
984	45.00	41.28	7.62	[illegible]	-7.62	-10.55	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
1017	45.00	42.28	7.62	[illegible]	-7.62	-10.78	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
1020	45.00	43.28	7.62	[illegible]	-7.62	-11.01	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
1053	45.00	44.28	7.62	[illegible]	-7.62	-11.24	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
1056	45.00	45.28	7.62	[illegible]	-7.62	-11.47	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
[illegible]																	
1089	45.00	46.28	7.62	[illegible]	-7.62	-11.70	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853
1092	45.00	47.28	7.62	[illegible]	-7.62	-11.93	-5.39	1.034E-04	.059	.850	5.034E-07	41.68	.80	.50	.878	.037	.853

3.4-207



CFHT TEST (92), MDAC-E RSI GAPS, RUN (144) 1973 PAGE 73

MACH = 1.20
RX ECC = 8.161E-02
RL ECC = 8.398E-02
RE/METER = 3.32[illegible]
HO = 2.619E+07 (W/M2-K)
TW = 300.00 (K)
STEP = .254 (CM)

TT = 9.368E+02(K)
PI = 5.177E+06(N/M2)
TI = 4.693E+01(K)
PI = 9.643E+01(N/M2)
(RHO V)1 = 1.034E+01(KG/M2-S)
GAP = .711 (CM)
CONF =STAG

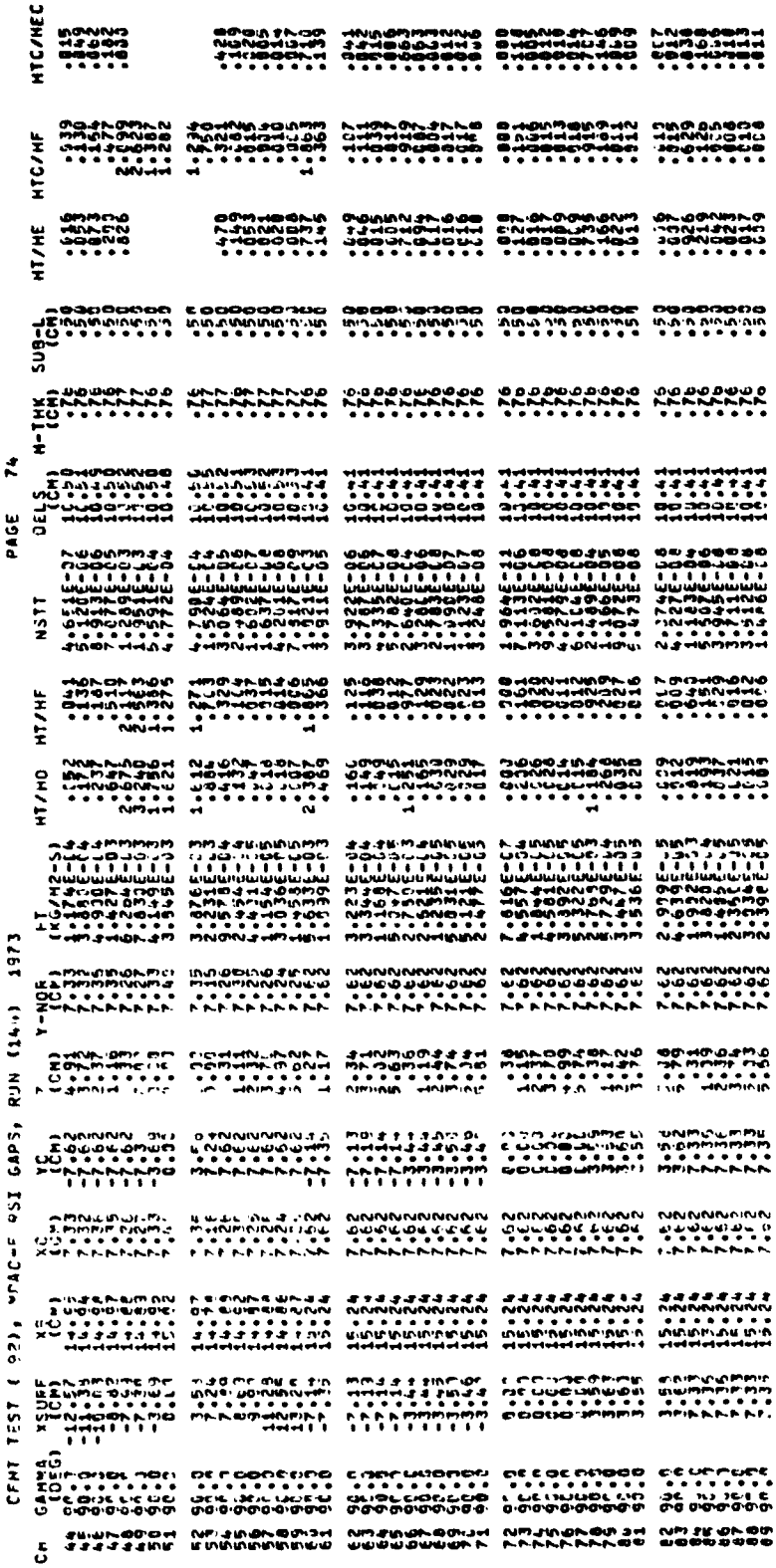
TAN/TT = .993 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 CR 90 DEG)

TILE COORDINATES(GAMMA=0.)
X9 = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	X9 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	90.0	-13.39	7.62	[illegible]	-7.62	5.70	0.00	1.944E-05	.[illegible]12	.011	2.030E-08	11.56	.83	.50	.039	.007	.055
10	90.0	-12.72	7.62	[illegible]	-7.62	5.13	0.00	4.545E-05	.025	.023	9.976E-08	11.56	.83	.50	.077	.018	.133
11	90.0	-11.34	7.62	[illegible]	-7.62	3.74	0.00	1.116E-04	.054	.050	9.351E-07	11.56	.83	.50	.037	.043	.632
12	90.0	-10.05	7.62	[illegible]	-7.62	2.36	0.00	1.882E-04	.100	.091	1.665E-06	11.56	.83	.50	.069	.073	.855
13	90.0	-9.42	7.62	[illegible]	-7.62	1.73	0.00	4.676E-04	.226	.206	9.352E-06	11.56	.83	.50	.135	.180	.1.40
14	90.0	-8.72	7.62	[illegible]	-7.62	1.13	0.00	8.498E-04	.974	.377	2.370E-04	11.56	.83	.50	.738	.961	.1.26
15	90.0	-7.29	7.62	[illegible]	-7.62	.29	0.00	2.435E-03	1.455	1.325	4.424E-04	11.56	.83	.50		1.324	
16	90.0	-3.63	7.62	[illegible]	-3.63	.10	0.00	2.858E-03	1.291	1.175	3.493E-04	11.56	.83	.50		1.178	
17	90.0	-.97	7.62	[illegible]	.97	.10	0.00	2.777E-03	1.182	1.078	2.910E-04	11.56	.83	.50		1.078	
18	90.0	3.64	7.62	[illegible]	3.64	.10	0.00	2.589E-03	1.122	1.024	2.570E-04	11.56	.83	.50		.998	
19	90.0	7.27	7.62	[illegible]	7.27	1.08	0.00	1.467E-03	.645	.587	8.369E-05	11.56	.83	.50		.565	
20	90.0	7.97	7.62	[illegible]	7.62	.41	0.00	8.277E-06	.004	.003	2.567E-09	11.56	.83	.50	.005	.003	.000
21	90.0	8.72	7.62	[illegible]	7.62	1.17	0.00	3.781E-05	.031	.028	1.835E-07	11.56	.83	.50	.048	.015	.026
22	90.0	9.94	7.62	[illegible]	7.62	2.39	0.00	-2.922E-05	-.005	.004	-1.192E-08	11.56	.83	.50	.007	-.011	-.023
23	90.0	11.25	7.62	[illegible]	7.62	3.72	0.00	1.187E-05	.012	.011	1.276E-08	11.56	.83	.50	.019	.005	.010
24	90.0	11.89	7.62	[illegible]	7.62	4.37	0.00	6.803E-05	.035	.027	1.992E-08	11.56	.83	.50	.042	.011	.022
25	90.0	12.25	7.62	[illegible]	7.62	4.73	0.00	3.718E-05	.019	.005	1.776E-08	11.56	.83	.50	.008	.015	.029
26	90.0	-13.35	11.38	[illegible]	-7.62	5.79	0.76	1.883E-05	.012	.011	1.987E-08	11.30	.81	.50	.003	.007	.013
27	90.0	-12.69	11.43	[illegible]	-7.62	5.14	0.76	7.936E-05	.039	.034	2.656E-07	11.29	.81	.50	.011	.029	.054
28	90.0	-11.36	11.38	[illegible]	-7.62	3.72	0.76	3.044E-04	.137	.120	3.555E-06	11.30	.81	.50	.038	.113	.216
29	90.0	-10.08	11.43	[illegible]	-7.62	2.44	0.76	8.835E-04	.481	.246	1.396E-05	11.29	.81	.50	.079	.216	.1.40
30	90.0	-8.81	11.49	[illegible]	-7.62	1.16	0.83	1.716E-03	.761	.666	1.111E-04	11.29	.81	.50	.213	.635	.2.00
31	90.0	-7.99	11.49	[illegible]	-7.62	.33	0.87	7.287E-03	3.103	2.712	1.921E-03	11.28	.81	.50	.869	2.696	.8.50
32	90.0	-7.24	11.41	[illegible]	-7.24	.10	0.79	8.558E-03	3.571	3.126	2.601E-03	11.30	.81	.50		3.172	
33	90.0	-3.71	11.43	[illegible]	-3.71	.10	0.92	3.665E-03	1.852	1.359	4.828E-04	11.28	.81	.50		1.364	
34	90.0	.59	11.43	[illegible]	.59	.10	0.89	2.945E-03	1.246	1.089	3.116E-04	11.27	.81	.50		1.088	
35	90.0	3.59	11.41	[illegible]	3.59	.10	0.89	2.643E-03	1.120	.978	2.514E-04	11.28	.81	.50		.978	
36	90.0	7.26	11.38	[illegible]	7.26	.40	0.74	1.606E-03	.637	.558	8.710E-05	11.30	.81	.50		.995	
37	90.0	7.97	11.41	[illegible]	7.62	.37	0.79	1.979E-04	.095	.083	1.650E-06	11.30	.81	.50	.149	.073	.123
38	90.0	8.73	11.43	[illegible]	7.62	1.15	0.74	1.180E-04	.070	.066	7.602E-07	11.30	.81	.50	.119	.073	.123
39	90.0	9.05	11.43	[illegible]	7.62	1.35	0.83	-1.824E-05	-.026	.023	-4.080E-08	11.29	.81	.50	.041	-.037	-.061
40	90.0	11.22	11.43	[illegible]	7.62	3.62	0.80	9.866E-05	.019	.017	6.383E-08	11.30	.81	.50	.034	.014	.024
41	90.0	12.65	11.28	[illegible]	7.62	5.04	0.67	2.658E-05	.014	.013	3.281E-08	11.31	.82	.50	.023	.010	.017
42	91.0	-13.29	11.24	[illegible]	-7.62	5.98	0.62	1.895E-05	.017	.015	2.766E-	11.32	.82	.50	.027	.007	.012
43	96.0	-13.37	14.29	[illegible]	-7.62	6.73	0.56	4.734E-05	.010	.015	6.772E-08	16.56	.76	.50	.066	.016	.026


CFNT TEST (92), VAC-F RSI GAPS, RUN (14..) 1973
PAGE 74
HTC/HEC
HTC/HF
HT/HE
SUB-L (CM)
M-THK (CM)
DELS (CM)
NSTT
HT/HF
HT/HO
HT (KG/M2)
Y-NOR
Y (CM)
XE (CM)
XSURF
GAMMA
CM

3.4-218

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CFHT TEST (92), MDAC-E RSI GAPS, RUN (145) 1573

MACH = 15.200 RE = 9.680E+02(K)
RE/FT = 6.435E+06 TT = 5.177E+03(N/M2)
RE/M = 2.111E+07 PT = 4.076E+04(K)
RNOSE = 2.286E+00 RHO V11 = 1.033E-03(KG/M2-S)
TIME = 209.254(SEC) GAP = .711 (CM)
STEP = .254(CM) CONF = STAG

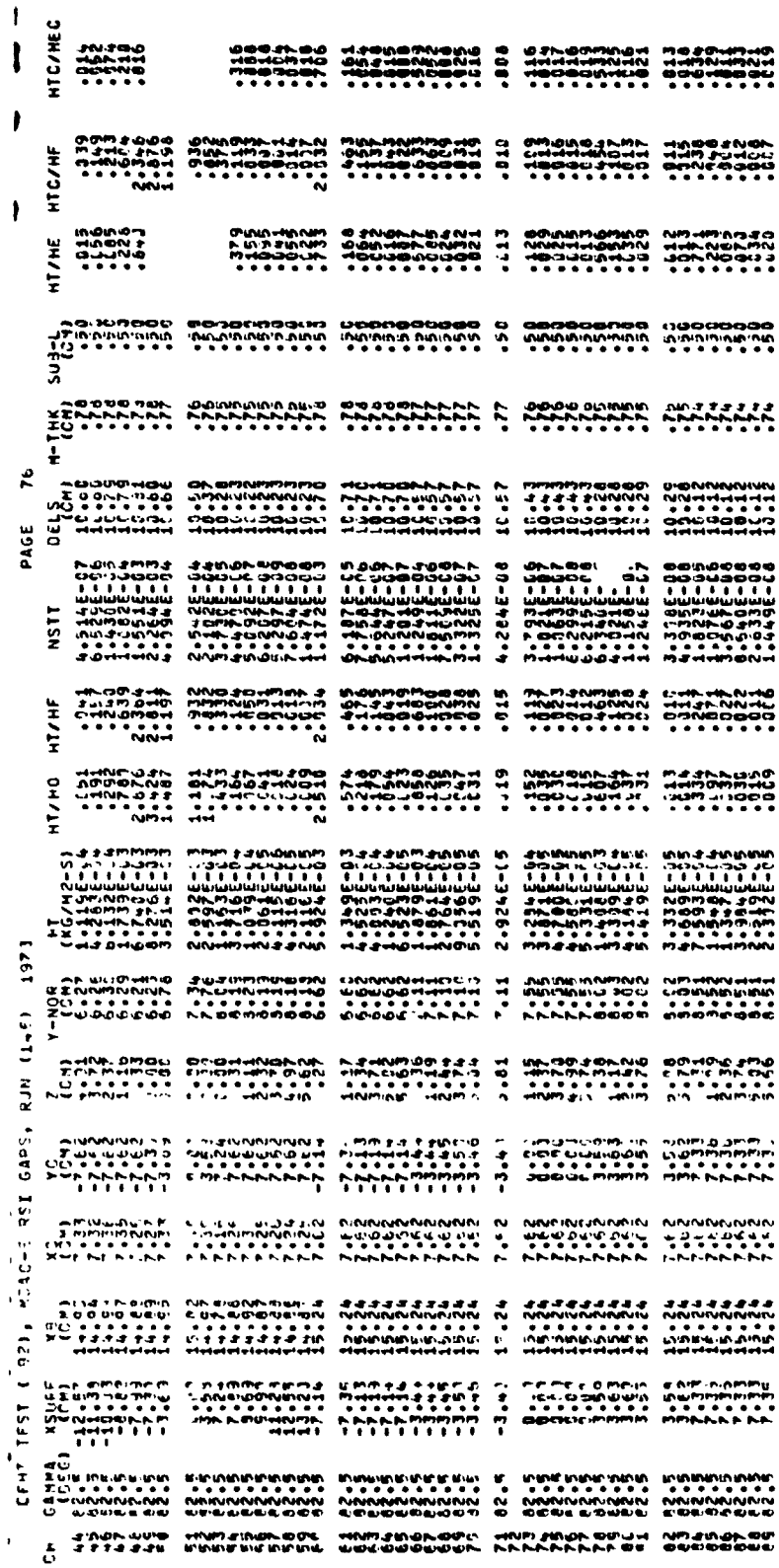
TAN/FT =8.93E FCE HT/HO TILE COORDINATES(GAMMA=66.4
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FROM STAG. POINT) XC = X-COOR. FROM TILE CENTER
HT/HE, GAP HEATING CORRECTED TO FLAT PLATE YC = Y-COOR. FROM TILE CENTER
HTC/HEG, CONDUCTION CORRECTED HT/HE

SPECIFIC HEAT CORRECTED

C#	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-SEC)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTG/HF	HTG/HEC
9	82.5	-12.372	7.662	-7.622	5.733	.746	.999	.5563-01	.027	.029	1.336E-07	11.552	.03	.558	.005	.006	.003
10	82.5	-12.372	7.662	-7.622	5.733	.746	.999	.5563-01	.027	.029	1.215E-07	11.552	.03	.558	.012	.026	.010
															.008	.016	.006
															.017	.036	.014
															.034	.072	.028
															.068	.144	.056
															.136	.288	.112
															.272	.576	.224
															.544	1.152	.448
															.002	.004	.002
															.004	.008	.003
															.008	.016	.006
															.016	.032	.013
															.032	.064	.025
															.063	.128	.050
															.126	.256	.100
															.253	.512	.201
															.506	1.024	.402
															.012	.024	.009
															.024	.048	.019
															.047	.096	.038
															.095	.192	.075
															.189	.384	.150
															.379	.768	.301
															.758	1.536	.602
															.871	.137	.109
																.274	.218
																.549	.436
																1.098	.871
																2.196	1.742
																4.392	3.484
																8.784	6.968
																17.568	13.936
																35.136	27.872
																70.272	55.744
																140.544	111.488
																281.088	222.976
																562.176	445.952

3.4-289

ORIGINAL PAGE IS
OF POOR QUALITY



CFHT TEST (3LD), PDAC-E RSI GAPS, RUN (14E) 1973 PAGE 77

MACH = 1.[illegible]
PX ENG = [illegible]
RE/FT ENG = [illegible]
RE/PFTSTD = [illegible]
HO = [illegible]
TW = [illegible]
STEP = [illegible]

TAW/TT =SURFACE TEMPERATURE/TOTAL TEMPERATURE
XSURF =SURFACE DISTANCE (FLOW DIRECTION) OR RADIUS (DEG)
HT/HE= GAP HEATING RATIOED TO EDGE AT TILE TOP (CORRECTED)
+HC/HEC= GAP HEATING (CONDUCTION CORRECTED) HT/HE

TT = 9.935E+02(K)
DT = 5.470E+01(K)
PT = 8.702E+01(N/M2)
PS = 8.804E+01(N/M2)
(RHO V)1 = 1.233E+01(KG/M2-S)
GAP = .711 (CM)
CONF =STAG

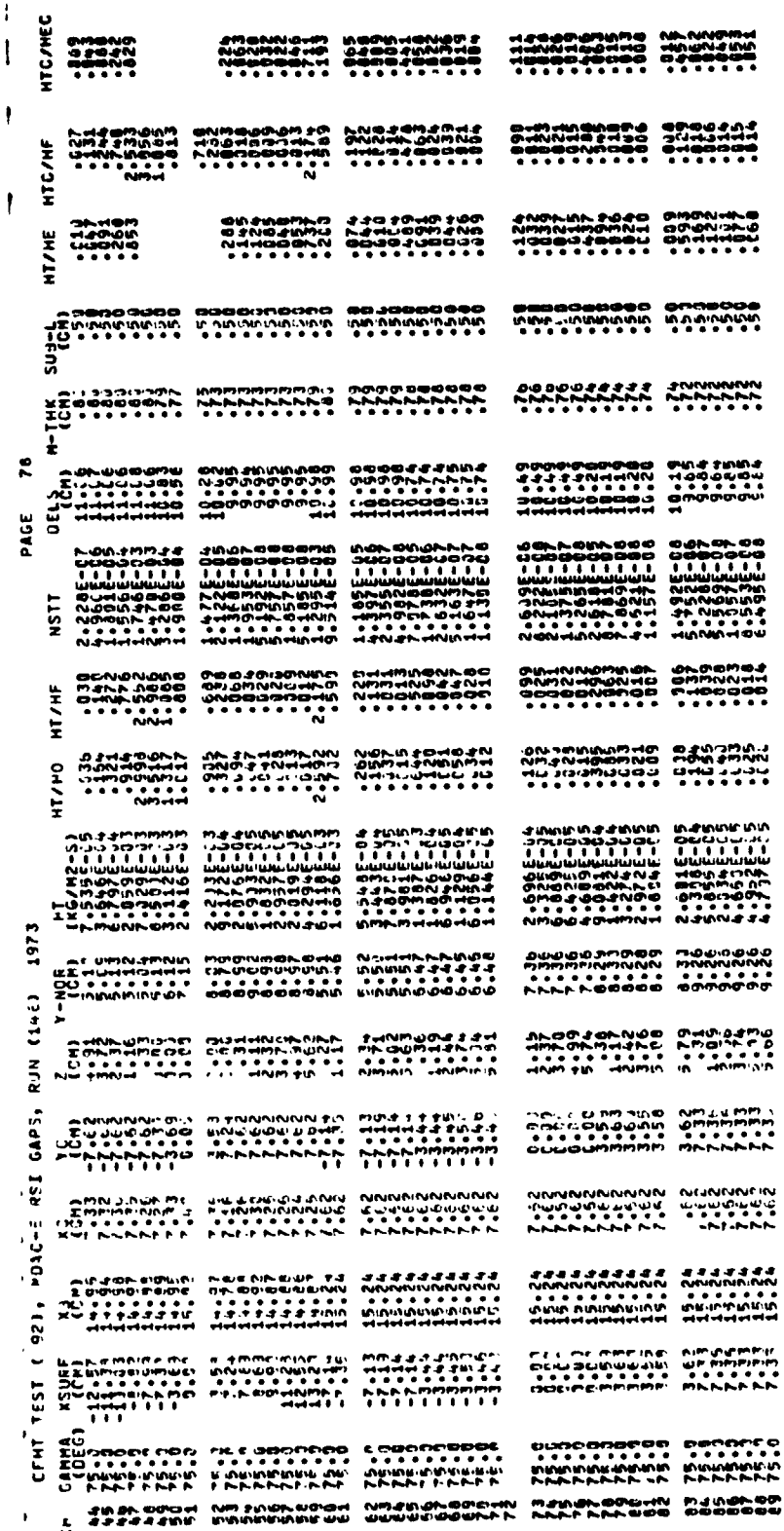
TILE COORDINATES(GAMMA=0.)
XB = X-COORD. FROM TILE LEADING EDGE
XC = X-COORD. FROM TILE CENTER
YC = Y-COORD. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

RATIOED TO FLAT PLATE

GAMMA (DEG)	XSURF (CM)	X3 (CM)	XSURF (CM)	YSURF (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTG/HF	HTG/HEC
[illegible]																

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CFMT TEST (929), MDAC-E RSI GAPS, RUN (147) 1973 PAGE 79

SPECIFIC HEAT CORRECTED

TILE COORDINATES(GAMMA=[illegible]
X3 = X-COOR. FROM TILE LEFT EDGE
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

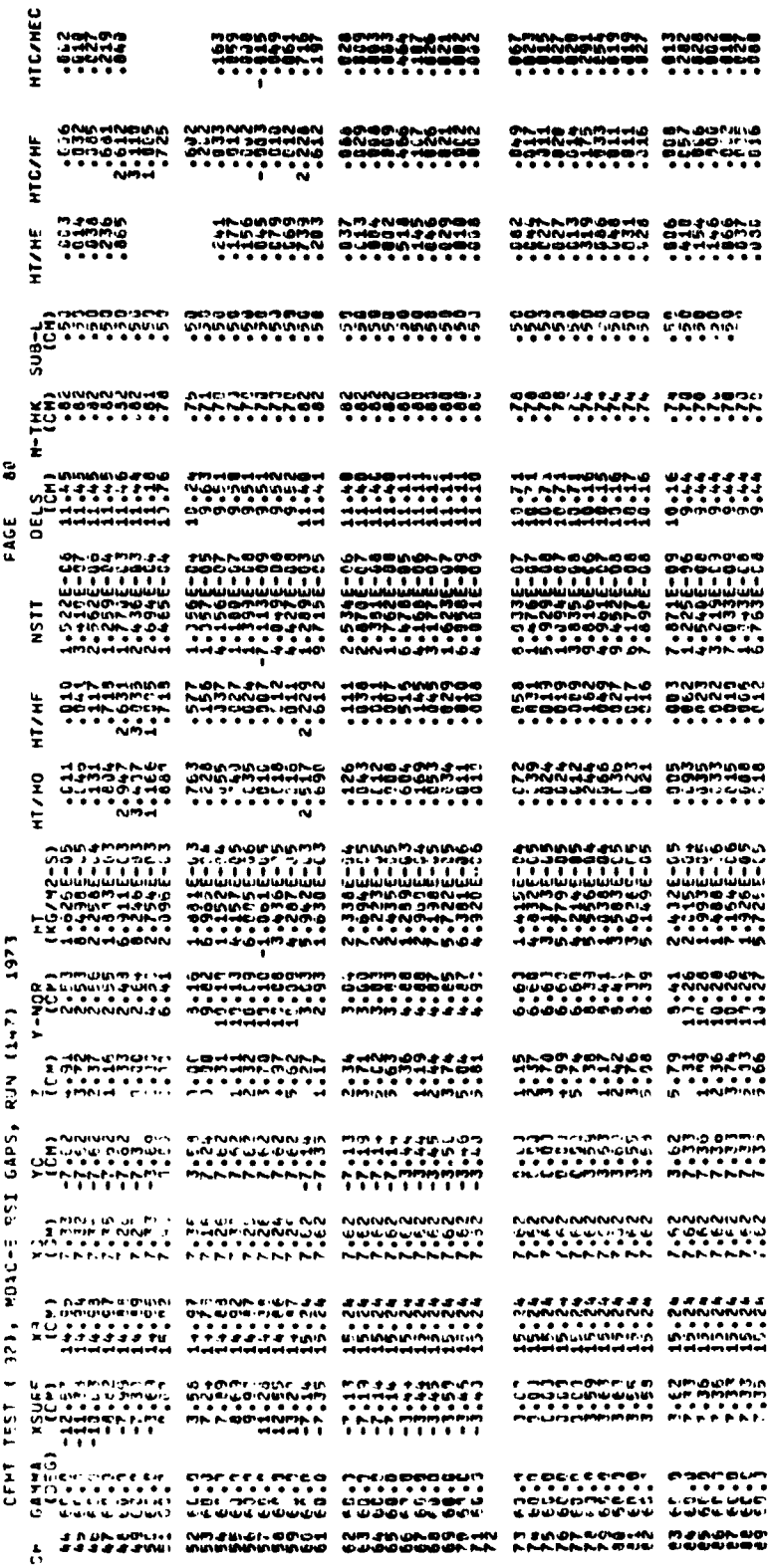
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CM	GAMMA (DEGS)	XSURF (CM)	XB (CM)	XS (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-SEC)	HT/HO	HT/HF	NSTT	DELS (CM)	N-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9.660	0.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	0.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	0.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
9.660	22.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	22.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	22.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
9.660	45.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	45.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	45.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
9.660	67.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	67.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	67.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
9.660	90.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	90.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	90.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
9.660	112.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	112.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	112.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
9.660	135.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	135.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	135.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
9.660	157.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	157.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	157.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
9.660	180.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	180.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	180.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
9.660	202.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	202.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	202.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
9.660	225.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	225.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	225.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
9.660	247.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	247.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	247.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
9.660	270.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	270.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	270.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
9.660	292.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	292.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	292.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
9.660	315.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	315.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	315.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
9.660	337.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	337.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	337.500	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
9.660	360.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
10.660	360.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053
11.660	360.000	-1.322	7.662	0.000	-7.662	2.036	-3.811	2.026E-03	.133	.1188	2.462E-06	1.221	.61	.50	.047	.0345	.1053

CM	GAMMA (DEGS)	XSURF (CM)	XB (CM)	XS (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-SEC)	HT/HO	HT/HF	NSTT	DELS (CM)	N-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9.660	0.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	0.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	0.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
9.660	22.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	22.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	22.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
9.660	45.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	45.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	45.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
9.660	67.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	67.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	67.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
9.660	90.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	90.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	90.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
9.660	112.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	112.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	112.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
9.660	135.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	135.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	135.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
9.660	157.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	157.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	157.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
9.660	180.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	180.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	180.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
9.660	202.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	202.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	202.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
9.660	225.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	225.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	225.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
9.660	247.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	247.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	247.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
9.660	270.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	270.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	270.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
9.660	292.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	292.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	292.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
9.660	315.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	315.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	315.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
9.660	337.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	337.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	337.500	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
9.660	360.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
10.660	360.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862
11.660	360.000	-1.322	11.24	7.662	-7.662	5.090	6.094	-6.533E-05	.537	.6556	-3.543E-03	11.64	.77	.50	.111	-.0062	-.0862

3.0-293

ORIGINAL PAGE IS
OF POOR QUALITY



CFHT TEST (62), MOAC-E RSI GAPS, RUN (143) 1973 PAGE 61

MACH = 10.2[illegible]
RX EQC = 6.146E-12
RL EQC = 8.172E-12
RE/METER = 3.29EE+06
HO = 2.61[illegible]E+08 (W/M2-K)
TW = 3[illegible].3 (K)
STEP = .[illegible]4(CM)

TI = 9.993E+02(K)
PI = 5.179E+06(N/M2)
TE = 4.699E+01(K)
PE = 9.846E+01(N/M2)
(RHO V)1 = 1.033E+01(KG/M2-S)
GAP = .711 (CM)
CONF = STAG

TAN/TI = [illegible].895 FOR HT/HO
XSURF = SURFACE DISTANCE (FLOW DIRECTION) (1.0 OR 90 DEG)

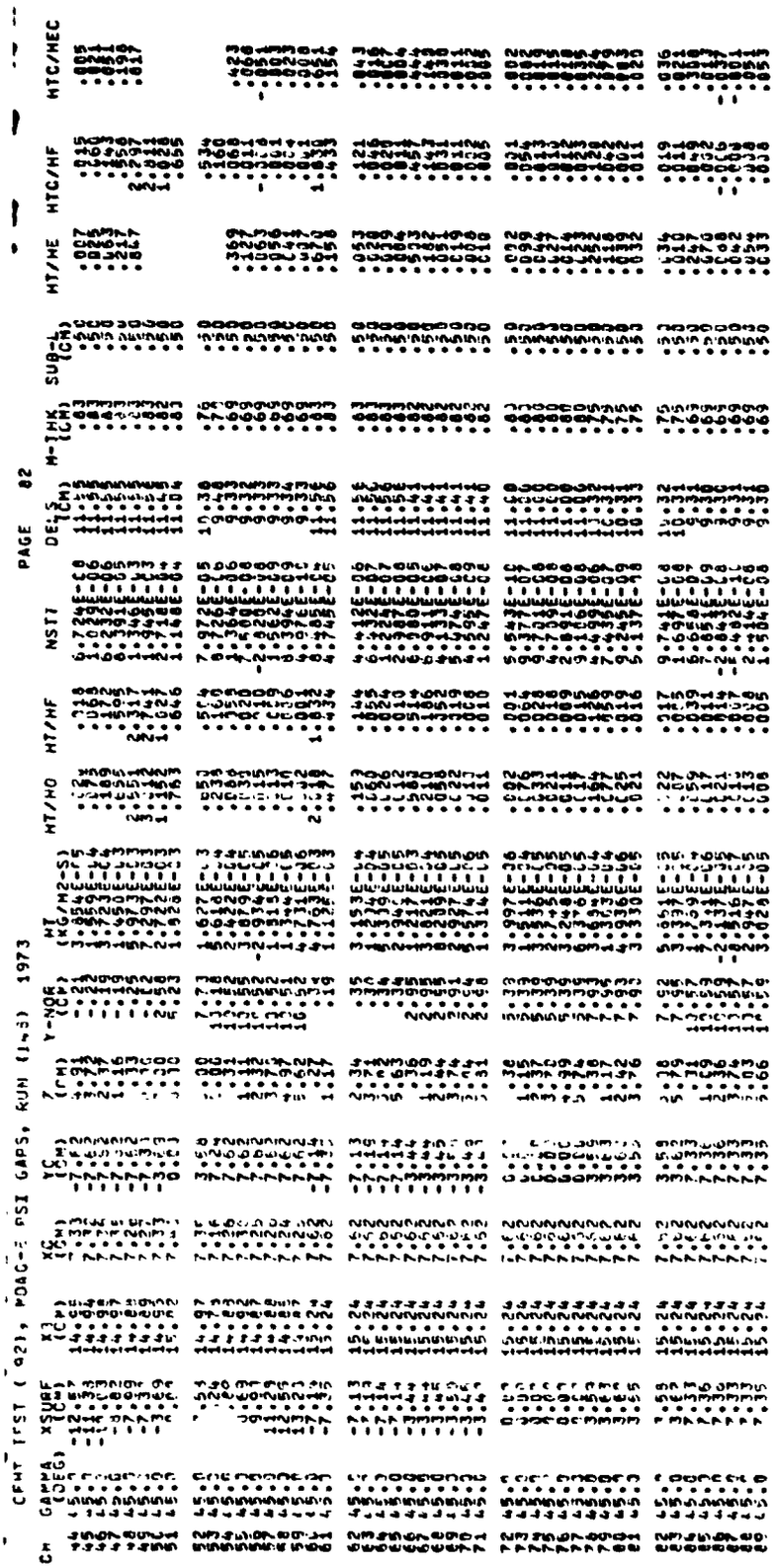
TILE COORDINATES(GAMMA=L.E.
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOP (CM)	HI (KG/M2-S)	HT/HO	HT/HF	TSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	45.0	-12.73	7.62	[illegible]	-7.62	5.78	-5.39	1.734E-05	.613	.010	1.715E-08	16.88	.79	.50	.664	.016	.022
10	45.0	-12.72	7.62	[illegible]	-7.62	5.03	-5.39	3.476E-05	.021	.017	3.894E-08	13.88	.79	.50	.006	.312	.044
11	45.0	-11.34	7.62	[illegible]	-7.62	3.74	-5.39	1.291E-04	.064	.052	6.485E-07	13.88	.79	.50	.119	.944	.016
12	45.0	-10.[illegible]	7.62	[illegible]	-7.62	2.36	-5.39	3.222E-04	.172	.140	4.373E-06	13.88	.79	.20	.651	.111	.843
13	45.0	-9.[illegible]	7.62	[illegible]	-7.62	1.14	-5.39	1.690E-03	.753	.613	1.047E-04	10.88	.79	.50	.224	.582	.208
14	45.0	-8.[illegible]	7.62	[illegible]	-7.62	.33	-5.39	6.717E-03	2.866	2.331	1.523E-03	10.88	.79	.50	.854	2.313	.835
15	45.0	-7.23	7.62	[illegible]	-7.62	-.10	-5.16	7.363E-03	3.356	2.759	2.137E-03	11.93	.79	.50		2.772	
16	45.0	-3.63	7.62	.00	-3.81	-2.39	-2.57	3.436E-03	1.452	1.255	4.326E-04	11.39	.82	.50		1.297	
17	45.0	-1.[illegible]	7.62	[illegible]	[illegible].03	-.03	1.87	2.742E-03	1.170	1.070	2.553E-04	11.56	.83	.50		1.057	
18	45.0	3.54	7.62	[illegible]	3.54	1.10	2.54	2.683E-03	1.173	1.347	2.728E-04	11.45	.82	.50		1.813	
19	45.0	7.[illegible]	7.62	[illegible]	7.[illegible]	1.76	5.14	2.170E-03	.879	.746	1.506E-04	11.06	.81	.50		.746	
20	45.0	7.91	7.62	[illegible]	7.62	[illegible]	[illegible]	5.523E-06	.002	.002	1.058E-07	11.00	.80	.50	.613	.002	.003
21	45.0	4.72	7.62	[illegible]	7.62	1.17	[illegible]	1.236E-04	.069	.058	6.946E-07	11.00	.80	.50	.078	.044	.059
22	45.0	9.[illegible]	7.62	[illegible]	7.62	2.39	[illegible].30	3.[illegible]43E-05	.031	.026	9.219E-06	11.00	.80	.50	.035	.013	.017
23	45.0	11.[illegible]	7.62	[illegible]	7.62	3.[illegible]	[illegible].[illegible]	2.264E-05	.022	.011	2.315E-06	11.00	.80	.50	.014	.008	.011
24	45.0	12.[illegible]	7.62	[illegible]	7.62	5.17	[illegible].30	3.836E-05	.109	.008	2.385E-06	11.00	.80	.50	.011	.014	.018
25	45.0	13.[illegible]	7.62	[illegible]	7.62	6.73	5.39	9.448E-05	.116	.013	9.398E-06	11.08	.80	.50	.018	.023	.031
26	45.0	-13.[illegible]	11.[illegible]	[illegible]	-7.62	5.78	-2.73	2.846E-05	.016	.014	4.032E-06	11.37	.82	.50	.005	.011	.015
27	45.0	-12.63	11.[illegible]	[illegible]	-7.62	5.04	-2.73	9.122E-05	.045	.040	3.638E-07	11.37	.82	.50	.013	.035	.047
28	45.0	-11.[illegible]	11.[illegible]	[illegible]	-7.62	3.72	-2.73	3.[illegible]9E-06	.139	.123	3.697E-06	11.37	.82	.50	.039	.116	.036
29	45.0	-10.[illegible]	11.[illegible]	[illegible]	-7.62	2.44	-2.69	6.456E-04	.339	.275	1.734E-05	11.37	.82	.50	.087	.244	.078
30	45.0	-8.81	11.45	[illegible]	-7.62	1.16	-2.69	1.745E-03	.776	.690	1.171E-04	11.37	.82	.50	.218	.657	.264
31	45.0	-7.97	11.40	[illegible]	-7.62	.33	-2.69	7.112E-03	3.[illegible]9	2.697	1.806E-03	11.38	.82	.50	.851	2.660	.831
32	45.0	-7.2[illegible]	11.41	[illegible]	-7.2[illegible]	[illegible].33	-2.44	8.533E-03	3.263	3.182	2.641E-03	11.40	.82	.20		3.226	
33	45.0	-3.[illegible]	11.[illegible]	[illegible]	-3.[illegible]	[illegible].[illegible]	[illegible].15	3.531E-03	1.[illegible]	1.382	4.827E-04	11.56	.83	.50		1.362	
34	45.0	[illegible].[illegible]	11.[illegible]	[illegible]	[illegible].[illegible]	[illegible].33	2.79	2.722E-03	1.154	1.325	2.715E-04	11.42	.82	.50		1.024	
35	45.0	3.[illegible]	11.[illegible]	[illegible]	3.[illegible]	[illegible].30	[illegible].[illegible]	2.499E-03	1.154	.891	2.157E-04	11.02	.83	.50		.890	
36	45.0	7.[illegible]	11.[illegible]	[illegible]	7.[illegible]	1.08	[illegible].[illegible]	1.790E-03	.724	.560	9.741E-05	10.36	.78	.50		.566	
37	45.0	9.[illegible]	11.[illegible]	[illegible]	7.[illegible]	[illegible].37	8.[illegible]	4.012E-04	.181	.137	5.345E-06	11.27	.75	.50	.254	.129	.223
38	45.0	3.[illegible]	11.[illegible]	[illegible]	7.[illegible]	1.15	3.[illegible]	5.324E-05	.049	.037	2.116E-07	13.28	.79	.50	.068	.019	.032
39	45.0	9.[illegible]	11.42	[illegible]	7.[illegible]	2.35	3.08	-2.[illegible]E-06	.016	.012	-2.396E-08	13.27	.79	.50	-.022	-.007	-.011
40	45.0	11.[illegible]	11.42	[illegible]	7.[illegible]	3.62	0.67	2.323E-05	.213	.010	2.181E-08	16.27	.79	.50	.018	.007	.013
41	45.0	12.[illegible]	11.[illegible]	[illegible]	7.[illegible]	[illegible].[illegible]	7.98	2.354E-05	.213	.510	2.203E-08	16.30	.75	.50	.017	.008	.013
42	45.0	-11.[illegible]	11.24	[illegible]	7.6[illegible]	3.68	7.69	2.[illegible]6E-05	.[illegible]4	.011	2.540E-08	11.31	.75	.50	.019	.008	.014
43	45.0	-11.[illegible]	11.07	[illegible]	-7.6[illegible]	3.78	-.10	1.[illegible]5E-05	.[illegible]6	.007	1.279E-08	11.05	.83	.50	.003	.007	.003

3.4-295



CFHT TEST (92), MUAC-2 RSI GAPS, RUN (2) 1973 PAGE 83

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MACH     = 10.29?              TT        = 1.012E+03(K)
RX F05   = 5.712E-01           PT        = 5.172E+06(N/M2)
RL E05   = 6.128E-02           T1        = 4.772E+01(K)
RE/METER = 4.22?E+05           P1        = 9.811E+01(N/M2)
HO       = 2.619E+0? (W/M2-K)  (RHO V)1  = 1.322E+01(KG/M2-S)
TW       = 296.5 (K)           GAP       = .127 (CM)
STEP     = ?.0?? (CM)          CONF      =STAG

TAW/TT =.995 FOR HT/HO             TILE COORDINATES(GAMMA=0.0
XSURF  =SURFACE DISTANCE              XB = X-COOR. FROM TILE L.E.
        (FLOW DIRECTION)              XC = X-COOR. FROM TILE CENTER
        (0.0 OR 90 DEG )              YC = Y-COOR. FROM TILE CENTER     SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE
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CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	90.0	13.39	7.62	[illegible]	7.62	3.73	0.00	6.415E-05	.004	.004	2.551E-08	11.56	.83	.50	.007	.045	.042
10	90.0	12.72	7.62	[illegible]	7.62	5.?3	0.00	3.683E-05	.003	.000	1.150E-09	11.56	.83	.50	.001	.014	.024
11	90.0	11.34	7.62	[illegible]	7.62	3.74	0.00	2.160E-05	.009	.008	1.805E-08	11.56	.83	.50	.015	.008	.014
12																	
13	90.0	8.83	7.62	[illegible]	7.62	1.14	0.00	3.833E-05	.046	.042	1.245E-07	11.56	.83	.50	.074	.032	.020
14	90.0	5.92	7.62	[illegible]	7.62	.33	0.00	7.322E-04	.304	.277	1.913E-05	11.56	.83	.50	.484	.271	.464
15	90.0	7.29	7.62	[illegible]	7.29	1.00	0.00	1.513E-03	.629	.572	8.517E-05	11.56	.83	.50		.583	
16	90.0	3.63	7.62	[illegible]	3.63	3.00	0.00	2.783E-03	1.173	1.067	2.921E-04	11.56	.83	.50		1.072	
17	90.0	0.00	7.62	[illegible]	0.00	3.00	0.00	2.986E-03	1.256	1.143	3.337E-04	11.56	.83	.50		1.154	
18	90.0	-3.54	7.62	[illegible]	-3.54	3.00	0.00	3.051E-03	1.304	1.186	3.572E-04	11.56	.83	.50		1.179	
19	90.0	-7.27	7.62	[illegible]	-7.27	3.00	0.00	2.616E-03	1.099	1.000	2.573E-04	11.56	.83	.50		1.008	
20	90.0	-7.87	7.62	[illegible]	-7.62	.41	0.00	1.034E-03	.465	.423	4.298E-05	11.56	.83	.50	.423	.398	.395
21	90.0	-8.72	7.52	[illegible]	-7.62	1.17	0.00	-1.030E-05	.041	.035	-3.803E-08	11.56	.83	.50	.036	-.004	-.004
22	90.0	-9.94	7.62	[illegible]	-7.62	2.39	0.00	-3.087E-05	.002	.002	-6.435E-09	11.56	.83	.50	.002	-.012	-.012
23																	
24																	
25	90.0	-13.28	7.62	[illegible]	-7.62	5.73	0.00	1.691E-04	.005	.004	7.337E-08	11.56	.83	.20	.004	.365	.065
26	90.0	13.35	3.85	-3.76	7.62	5.70	-3.76	7.752E-05	.006	.009	4.056E-08	11.21	.81	.50	.008	.029	.043
27	90.0	12.60	3.82	-3.8?	7.62	5.04	-3.80	7.312E-05	.013	.011	8.530E-08	11.21	.81	.50	.018	.027	.041
28	90.0	11.36	3.86	-3.76	7.62	3.72	-3.76	2.132E-05	.008	.007	1.434E-08	11.21	.81	.50	.011	.008	.012
29																	
30	90.0	8.83	3.79	-3.93	7.62	1.16	-3.83	1.128E-05	.035	.033	3.605E-06	11.20	.81	.50	.052	.034	.006
31	90.0	7.97	3.7?	-3.97	7.62	.33	-3.87	8.598E-04	.368	.319	2.687E-05	11.20	.81	.50	.503	.314	.476
32	90.0	7.24	3.?7	-3.79	7.24	1.00	-3.79	1.734E-03	.731	.655	1.121E-04	11.21	.81	.50		.660	
33	90.0	3.71	3.7?	-3.92	3.71	3.00	-3.92	2.731E-03	1.177	1.316	2.794E-04	11.19	.81	.50		1.321	
34	90.0	0.04	3.67	-3.95	0.00	3.00	-3.93	2.431E-03	1.218	1.352	2.981E-04	11.16	.81	.50		1.053	
35	90.0	-3.59	3.71	-3.80	-3.59	.00	-3.89	3.115E-03	1.312	1.135	3.479E-04	11.19	.81	.50		1.142	
36	90.0	-7.23	3.83	-3.7?	-7.23	.00	-3.74	2.366E-03	1.?75	.931	2.367E-04	11.22	.81	.50		.953	
37	90.0	-7.97	3.83	-3.79	-7.62	.37	-3.79	1.065E-03	.450	.391	4.?13E-05	11.21	.81	.50	.421	.392	.412
38	90.0	-9.72	3.84	-3.74	-7.62	1.15	-3.74	-1.223E-05	.026	.023	-2.749E-08	11.22	.81	.50	.025	-.005	-.005
39																	
40																	
41	90.0	-12.64	3.85	-3.77	-7.62	5.?4	-3.67	1.138E-04	.033	.024	3.269E-07	11.23	.81	.50	.030	.041	.343
42	90.0	-11.28	4.??	-3.62	-7.62	5.68	-3.62	5.329E-05	.023	.033	1.657E-08	11.29	.81	.50	.023	.033	.023
43	90.0	13.37	.27	-7.35	7.62	5.73	-7.35	-1.201E-04	.008	.006	-6.551E-08	10.33	.75	.50	.011	-.036	-.065
44																	

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CFMT TEST (921), MOAC-3 RSI GAPS, RUN (3) 1973 PAGE 85

MACH = 15.200 TT = 5.173E+03(K)
REX E/G = 5.064E-03 ST = 5.173E+03(K)
RE/METER = 6.533E+07 TI = 9.000E+03(K)
HC = 23.219 (MJ/M2-K) RHO VIS = 1.000E-04(KG/M2-S)
TW = 297.000 (K) GAP = .127 (CM)
STEP = 297.000 (K) CONF = STAG

TILE COORDINATES(GAMMA=0.),
X9 = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

XAW/TT =0.893 FOR HT/HO SPECIFIC HEAT CORRECTED
XSURF =SURFACE DISTANCE
(FLOW DIRECTION)
HT/HF, GAP HEATING RATIO OF TOP EDGE AT TILE CORNER
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	X9 (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	82.5	13.72	7.62	7.62	5.70	.99	-1.318E-04	.031	.011	-1.202E-06	11.65	.83	.50	.6-2	-.350	-.089
2	82.5	13.36	7.62	7.62	5.70	-2.74	6.598E-05	.021	.011	6.150E-09	11.37	.82	.50	4.3	.025	.036
3	82.5	12.66	7.62	7.62	5.70	-2.74	4.088E-05	.021	.008	1.535E-10	11.36	.82	.50	.003	.023	.026
4	82.5	11.35	7.62	7.62	5.72	-2.73	6.062E-05	.032	.008	1.430E-10	11.37	.82	.50	.003	.023	.026
5	82.5	8.89	7.62	7.62	5.16	-2.62	1.396E-05	.030	.031	4.651E-09	11.36	.82	.50	.445	.015	.027
6	82.5	7.87	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
7	82.5	7.37	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
8	82.5	6.86	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
9	82.5	6.35	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
10	82.5	5.84	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
11	82.5	5.33	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
12	82.5	4.82	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
13	82.5	4.32	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
14	82.5	3.81	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
15	82.5	3.30	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
16	82.5	2.79	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
17	82.5	2.29	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
18	82.5	1.78	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
19	82.5	1.27	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
20	82.5	.76	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
21	82.5	.25	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
22	82.5	-.25	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
23	82.5	-.76	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
24	82.5	-1.27	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
25	82.5	-1.78	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
26	82.5	-2.29	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
27	82.5	-2.79	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
28	82.5	-3.30	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
29	82.5	-3.81	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
30	82.5	-4.32	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
31	82.5	-4.82	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
32	82.5	-5.33	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
33	82.5	-5.84	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
34	82.5	-6.35	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
35	82.5	-6.86	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
36	82.5	-7.37	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
37	82.5	-7.87	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
38	82.5	-8.38	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
39	82.5	-8.89	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
40	82.5	-9.40	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
41	82.5	-9.91	7.62	7.62	5.16	-2.62	4.396E-05	.094	.031	2.644E-08	11.36	.82	.50	.445	.015	.027
42	82.5	-10.42	7.62	7.62	5.17	-.55	-1.314E-04	.001	.001	-1.113E-08	11.52	.83	.50	.001	-.051	-.051
43	82.5	-10.92	7.62	7.62	5.17	-.55	-1.314E-04	.001	.001	-1.113E-08	11.52	.83	.50	.001	-.051	-.051
44	82.5	-11.22	3.62	-7.62	3.52	-4.76	-1.396E-04	.063	.063	-3.321E-08	11.42	.83	.50	.033	-.349	-.957
45	82.5	-11.43	4.3	-7.62	5.08	-4.58	-6.705E-05	.103	.062	-1.218E-08	11.46	.83	.51	.033	-.046	-.323
46	82.5	12.57	.29	-7.33	7.62	-6.27	6.055E-05	.000	.000	2.251E-09	10.65	.77	.56	.031	.025	.030

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ORIGINAL PAGE IS
OF POOR QUALITY

CFHT TEST (92), PDAC-E RSI GAPS, RUN (3) 1973

CP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XS (CM)	Z (CM)	Y-NOR (CM)	HT (BTU/M2-SEC)	HT/HO	HT/HF	NSTT	DELS (CM)	N-THK (CM)	SUBBL (CM)	HT/HE	HTC/HF	HTC/HEC
							.001		.011	1.3ERE-09	10.65	.77	.50	.011	.007	.010
1	82.5	11.33	-7.32	7.62	3.72	-8.26	2.062E-05									
2	82.5	9.22	-7.32	7.62	1.16	-8.29	5.126E-06	.431	.224	1.222E-08	10.65	.77	.50	.438	.012	.013
3	82.5	8.09	-7.32	7.62	1.16	-8.24	8.436E-06	.710	.369	1.222E-08	10.66	.77	.50	.434	.012	.012
4	82.5	7.86	-7.32	7.62	1.05	-8.23	1.179E-05	.992	.516	1.224E-08	10.66	.77	.50		.012	
5	82.5	7.64	-7.33	7.69	1.03	-8.20	1.393E-05	1.180	.696	2.460E-08	10.66	.76	.50		.012	
6	82.5	7.22	-7.32	7.62	1.00	-7.74	2.039E-05	1.716	.826	2.115E-08	10.33	.75	.50		.020	
7	82.5	6.99	-7.32	7.62	1.00	-7.75	2.493E-05	2.098	.966	1.115E-08	10.66	.74	.50		.005	
8	82.5	6.77	-7.32	7.62	1.00	-8.03	2.904E-05	2.444	.1.124	1.114E-08	10.66	.73	.50	.367	.015	.016
9	82.5	6.55	-7.32	7.62	1.11	-8.22	3.343E-05	2.814	.1.324	8.331E-09	10.66	.73	.50	.043	.011	.018
10	82.5	6.33	-7.32	7.62	1.11	-8.22	3.734E-05	3.142	.1.479	1.338E-07	10.66	.73	.50	.040	.024	.036
11	82.5	6.11	-7.32	7.62	1.11	-8.22	4.126E-05	3.472	.1.634	1.338E-07	10.66	.73	.50	.003	.017	.012
12	82.5	5.89	-7.32	7.62	1.11	-8.22	4.518E-05	3.802	.1.789	1.338E-07	10.66	.73	.50	.004	.009	.016
13	82.5	5.67	-7.32	7.62	1.11	-8.22	4.910E-05	4.132	.1.944	1.338E-07	10.66	.73	.50	.004	.009	.015
14	82.5	5.45	-7.32	7.62	1.11	-8.22	5.302E-05	4.462	.2.099	1.338E-07	10.66	.73	.50	.004	.024	.036
15	82.5	5.23	-7.32	7.62	1.11	-8.22	5.694E-05	4.791	.2.254	1.338E-07	10.66	.73	.50	.004	.024	.036
16	82.5	5.01	-7.32	7.62	1.11	-8.22	6.086E-05	5.121	.2.409	1.338E-07	10.66	.73	.50	.004	.024	.036
17	82.5	4.79	-7.32	7.62	1.11	-8.22	6.478E-05	5.451	.2.564	1.338E-07	10.66	.73	.50	.004	.024	.036
18	82.5	4.57	-7.32	7.62	1.11	-8.22	6.870E-05	5.781	.2.719	1.338E-07	10.66	.73	.50	.004	.024	.036
19	82.5	4.35	-7.32	7.62	1.11	-8.22	7.262E-05	6.111	.2.874	1.338E-07	10.66	.73	.50	.004	.024	.036
20	82.5	4.13	-7.32	7.62	1.11	-8.22	7.654E-05	6.441	.3.029	1.338E-07	10.66	.73	.50	.004	.024	.036
21	82.5	3.91	-7.32	7.62	1.11	-8.22	8.046E-05	6.771	.3.184	1.338E-07	10.66	.73	.50	.004	.024	.036
22	82.5	3.69	-7.32	7.62	1.11	-8.22	8.438E-05	7.101	.3.339	1.338E-07	10.66	.73	.50	.004	.024	.036
23	82.5	3.47	-7.32	7.62	1.11	-8.22	8.830E-05	7.431	.3.494	1.338E-07	10.66	.73	.50	.004	.024	.036
24	82.5	3.25	-7.32	7.62	1.11	-8.22	9.222E-05	7.761	.3.649	1.338E-07	10.66	.73	.50	.004	.024	.036
25	82.5	3.03	-7.32	7.62	1.11	-8.22	9.614E-05	8.091	.3.804	1.338E-07	10.66	.73	.50	.004	.024	.036
26	82.5	2.81	-7.32	7.62	1.11	-8.22	1.001E-04	8.421	.3.959	1.338E-07	10.66	.73	.50	.004	.024	.036
27	82.5	2.59	-7.32	7.62	1.11	-8.22	1.040E-04	8.751	.4.114	1.338E-07	10.66	.73	.50	.004	.024	.036
28	82.5	2.37	-7.32	7.62	1.11	-8.22	1.079E-04	9.081	.4.269	1.338E-07	10.66	.73	.50	.004	.024	.036
29	82.5	2.15	-7.32	7.62	1.11	-8.22	1.118E-04	9.411	.4.424	1.338E-07	10.66	.73	.50	.004	.024	.036
30	82.5	1.93	-7.32	7.62	1.11	-8.22	1.157E-04	9.741	.4.579	1.338E-07	10.66	.73	.50	.004	.024	.036
31	82.5	1.71	-7.32	7.62	1.11	-8.22	1.196E-04	10.071	.4.734	1.338E-07	10.66	.73	.50	.004	.024	.036
32	82.5	1.49	-7.32	7.62	1.11	-8.22	1.235E-04	10.401	.4.889	1.338E-07	10.66	.73	.50	.004	.024	.036
33	82.5	1.27	-7.32	7.62	1.11	-8.22	1.274E-04	10.731	.5.044	1.338E-07	10.66	.73	.50	.004	.024	.036
34	82.5	1.05	-7.32	7.62	1.11	-8.22	1.313E-04	11.061	.5.199	1.338E-07	10.66	.73	.50	.004	.024	.036
35	82.5	.83	-7.32	7.62	1.11	-8.22	1.352E-04	11.391	.5.354	1.338E-07	10.66	.73	.50	.004	.024	.036
36	82.5	.61	-7.32	7.62	1.11	-8.22	1.391E-04	11.721	.5.509	1.338E-07	10.66	.73	.50	.004	.024	.036
37	82.5	.39	-7.32	7.62	1.11	-8.22	1.430E-04	12.051	.5.664	1.338E-07	10.66	.73	.50	.004	.024	.036
38	82.5	.17	-7.32	7.62	1.11	-8.22	1.469E-04	12.381	.5.819	1.338E-07	10.66	.73	.50	.004	.024	.036
39	82.5	-7.35	-7.32	7.62	1.11	-8.22	1.508E-04	12.711	.5.974	1.338E-07	10.66	.73	.50	.004	.024	.036
40	82.5	-7.35	-7.32	7.62	1.11	-8.22	1.547E-04	13.041	.6.129	1.338E-07	10.66	.73	.50	.004	.024	.036
41	82.5	-7.35	-7.32	7.62	1.11	-8.22	1.586E-04	13.371	.6.284	1.338E-07	10.66	.73	.50	.004	.024	.036
42	82.5	-7.35	-7.32	7.62	1.11	-8.22	1.625E-04	13.701	.6.439	1.338E-07	10.66	.73	.50	.004	.024	.036
43	82.5	-7.35	-7.32	7.62	1.11	-8.22	1.664E-04	14.031	.6.594	1.338E-07	10.66	.73	.50	.004	.024	.036
44	82.5	-7.35	-7.32	7.62	1.11	-8.22	1.703E-04	14.361	.6.749	1.338E-07	10.66	.73	.50	.004	.024	.036
45	82.5	-7.35	-7.32	7.62	1.11	-8.22	1.742E-04	14.691	.6.904	1.338E-07	10.66	.73	.50	.004	.024	.036
46	82.5	-7.35	-7.32	7.62	1.11	-8.22	1.781E-04	15.021	.7.059	1.338E-07	10.66	.73	.50	.004	.024	.036
47	82.5	-7.35	-7.32	7.62	1.11	-8.22	1.820E-04	15.351	.7.214	1.338E-07	10.66	.73	.50	.004	.024	.036
48	82.5	-7.35	-7.32	7.62	1.11	-8.22	1.859E-04	15.681	.7.369	1.338E-07	10.66	.73	.50	.004	.024	.036
49	82.5	-7.35	-7.32	7.62	1.11	-8.22	1.898E-04	16.011	.7.524	1.338E-07	10.66	.73	.50	.004	.024	.036
50	82.5	-7.35	-7.32	7.62	1.11	-8.22	1.937E-04	16.341	.7.679	1.338E-07	10.66	.73	.50	.004	.024	.036
51	82.5	-7.35	-7.32	7.62	1.11	-8.22	1.976E-04	16.671	.7.834	1.338E-07	10.66	.73	.50	.004	.024	.036
52	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.015E-04	17.001	.7.989	1.338E-07	10.66	.73	.50	.004	.024	.036
53	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.054E-04	17.331	.8.144	1.338E-07	10.66	.73	.50	.004	.024	.036
54	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.093E-04	17.661	.8.299	1.338E-07	10.66	.73	.50	.004	.024	.036
55	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.132E-04	17.991	.8.454	1.338E-07	10.66	.73	.50	.004	.024	.036
56	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.171E-04	18.321	.8.609	1.338E-07	10.66	.73	.50	.004	.024	.036
57	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.210E-04	18.651	.8.764	1.338E-07	10.66	.73	.50	.004	.024	.036
58	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.249E-04	18.981	.8.919	1.338E-07	10.66	.73	.50	.004	.024	.036
59	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.288E-04	19.311	.9.074	1.338E-07	10.66	.73	.50	.004	.024	.036
60	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.327E-04	19.641	.9.229	1.338E-07	10.66	.73	.50	.004	.024	.036
61	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.366E-04	19.971	.9.384	1.338E-07	10.66	.73	.50	.004	.024	.036
62	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.405E-04	20.301	.9.539	1.338E-07	10.66	.73	.50	.004	.024	.036
63	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.444E-04	20.631	.9.694	1.338E-07	10.66	.73	.50	.004	.024	.036
64	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.483E-04	20.961	.9.849	1.338E-07	10.66	.73	.50	.004	.024	.036
65	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.522E-04	21.291	.10.004	1.338E-07	10.66	.73	.50	.004	.024	.036
66	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.561E-04	21.621	.10.159	1.338E-07	10.66	.73	.50	.004	.024	.036
67	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.600E-04	21.951	.10.314	1.338E-07	10.66	.73	.50	.004	.024	.036
68	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.639E-04	22.281	.10.469	1.338E-07	10.66	.73	.50	.004	.024	.036
69	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.678E-04	22.611	.10.624	1.338E-07	10.66	.73	.50	.004	.024	.036
70	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.717E-04	22.941	.10.779	1.338E-07	10.66	.73	.50	.004	.024	.036
71	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.756E-04	23.271	.10.934	1.338E-07	10.66	.73	.50	.004	.024	.036
72	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.795E-04	23.601	.11.089	1.338E-07	10.66	.73	.50	.004	.024	.036
73	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.834E-04	23.931	.11.244	1.338E-07	10.66	.73	.50	.004	.024	.036
74	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.873E-04	24.261	.11.399	1.338E-07	10.66	.73	.50	.004	.024	.036
75	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.912E-04	24.591	.11.554	1.338E-07	10.66	.73	.50	.004	.024	.036
76	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.951E-04	24.921	.11.709	1.338E-07	10.66	.73	.50	.004	.024	.036
77	82.5	-7.35	-7.32	7.62	1.11	-8.22	2.990E-04	25.251	.11.864	1.338E-07	10.66	.73	.50	.004	.024	.036
78	82.5	-7.35	-7.32	7.62	1.11	-8.22	3.029E-04	25.581	.12.019	1.338E-07	10.66	.73	.50	.004	.024	.036
79	82.5	-7.35	-7.32	7.62	1.11	-8.22	3.068E-04	25.911	.12.174	1.338E-07	10.66	.73	.50	.004	.024	.036
80	82.5	-7.35	-7.32	7.62	1.11	-8.22	3.107E-04	26.241	.12.329	1.338E-07	10.66	.73	.50	.004	.024	.036
81	82.5	-7.35	-7.32	7.62	1.11	-8.22	3.146E-04	26.571	.12.484	1.338E-07	10.66	.73	.50	.004	.024	.036
82	82.5	-7.35	-7.32	7.62	1.11	-8.22	3.185E-04	26.901	.12.639	1.338E-07	10.66	.73	.50	.004	.024	.036
83	82.5	-7.35	-7.32	7.62	1.11	-8.22	3.224E-04	27.231	.12.794	1.338E-07	10.66	.73	.50	.004	.024	.036
84	82.5	-7.35	-7.32	7.62	1.11	-8.22	3.263E-04	27.561	.12.949	1.338E-07	10.66	.73	.50	.004	.024	.036
85	82.5	-7.35	-7.32	7.62	1.11	-8.22	3.302E-04	27.891	.13.104	1.338E-07	10.66	.73	.50	.004	.024	.036
86	82.5	-7.35	-7.32	7.62	1.11	-8.22	3.341E-04	28.221	.13.259	1.338E-07	10.66	.73	.50	.004	.024	.036
87	82.5	-7.35	-7.32	7.62	1.11	-8.22	3.380E-04	28.551	.13.414	1.338E-07	10.66	.73	.50	.004	.024	.036
88	82.5	-7.35	-7.32	7.62	1.11	-8.22	3.419E-04	28.881	.13.569	1.338E-07	10.66	.73	.50	.004	.024	.036
89	82.5	-7.35	-7.32	7.62	1.11	-8.22	3.458E-04	29.211	.13.724	1.338E-07	10.66	.73	.50	.004	.024	.036

CFMT TEST (92), MDAC-E RSI GAPS, RUN (4) 1973 PAGE 87

MACH = 10.290 TT = 1.328E+03(K)
RX EPS = 5.645E-01 PI = 5.173E+00(N/M2)
RL EPS = 7.891E-02 TI = 4.655E+01(K)
RE/METER = 3.107E+06 PI = 9.603E+01(N/M2)
HO = 2.619E+03(W/M2-K) (RHO V)1 = 1.012E+01(KG/M2-S)
TW = 298.2 (K) GAP = .127 (CM)
STEP = 7.000(CM) CONF =STAG

TAW/TT =0.995 FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
((-) OR 90 DEG.) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	75.0	13.39	7.62	[illegible]	7.62	5.70	1.97	5.001E-05	.034	.044	1.784E-08	11.50	.83	.50	.016	.019	.033
11	75.0	12.42	7.62	[illegible]	7.62	5.03	1.97	3.268E-05	.032	.042	5.849E-09	11.50	.83	.50	.013	.012	.022
113	75.0	11.46	7.62	[illegible]	7.62	4.36	1.97	-1.761E-05	.001	.001	-1.102E-09	11.50	.83	.50	.011	-.007	-.012
115	75.0	8.83	7.62	[illegible]	7.62	2.14	1.97	1.171E-05	.039	.050	4.075E-08	11.50	.83	.50	.015	.009	.016
117	75.0	8.02	7.62	[illegible]	7.62	1.33	1.97	6.521E-04	.296	.265	1.719E-05	11.50	.83	.50	.473	.247	.434
119	75.0	7.20	7.62	[illegible]	7.20	1.00	1.89	1.501E-03	.625	.561	8.366E-05	11.50	.83	.50		.570	
121	75.0	3.63	7.62	[illegible]	3.63	1.00	.64	2.724E-03	1.149	1.038	3.809E-04	11.50	.83	.50		1.034	
123	75.0	2.81	7.62	[illegible]	2.81	1.00	-.02	2.923E-03	1.233	1.122	3.256E-04	11.50	.83	.50		1.126	
18	75.0	-3.54	7.62	[illegible]	-3.54	1.00	-.92	3.096E-03	1.290	1.157	3.454E-04	11.53	.83	.50		1.150	
19	75.0	-7.27	7.62	[illegible]	-7.27	1.00	-1.88	2.563E-03	1.077	.966	2.459E-04	11.46	.82	.50		.973	
20	75.0	-7.97	7.62	[illegible]	-7.62	1.41	-1.97	1.047E-03	.452	.405	4.209E-05	11.45	.82	.50	.419	.397	.588
21	75.0	-8.72	7.62	[illegible]	-7.62	1.17	-1.97	-1.706E-05	.030	.027	-4.906E-08	11.45	.82	.50	.028	-.006	-.007
22	75.0	-11.25	7.62	[illegible]	-7.62	3.70	-1.97	5.211E-05	.003	.002	1.235E-08	11.45	.82	.50	.002	.020	.020
24	75.0	-12.62	7.62	[illegible]	-7.62	5.07	-1.97	1.225E-04	.002	.002	2.359E-08	11.45	.82	.50	.002	.046	.046
27	75.0	12.68	3.82	-3.80	7.62	5.04	-1.79	1.039E-04	.000	.000	6.343E-10	11.48	.83	.50	.000	.040	.051
28	75.0	10.03	3.81	-3.81	7.62	2.44	-1.71	-1.977E-05	.000	.000	-1.692E-10	11.48	.83	.50	.011	-.006	-.010
29	75.0	9.27	3.75	-3.87	7.62	1.68	-1.73	-3.491E-05	.000	.000	-1.016E-08	11.47	.82	.50	.009	-.021	-.032
32	75.0	7.24	3.81	-3.79	7.24	.00	-1.79	2.022E-03	.832	.747	1.499E-04	11.47	.82	.50	.496	.324	.421
33	75.0	3.71	3.75	-3.82	3.71	1.00	-2.03	2.927E-03	1.227	1.088	3.144E-04	11.35	.82	.50		1.091	
34	75.0	2.89	3.69	-3.88	2.89	.00	-2.32	2.857E-03	1.206	1.067	2.372E-04	11.20	.81	.50		1.020	
35	75.0	1.59	3.81	-3.68	-3.81	1.00	-2.65	2.959E-03	1.247	1.045	3.471E-04	11.04	.81	.50		1.050	
36	75.0	-4.59	3.81	-3.74	-7.28	.00	-2.56	2.425E-03	1.005	.814	1.365E-04	10.85	.78	.50		.831	
37	75.0	-7.03	3.81	-3.70	-7.62	.37	-2.63	9.662E-04	.415	.334	3.274E-05	10.82	.78	.50	.413	.329	.396
38	75.0	-8.75	3.82	-3.74	-7.62	1.15	-2.59	4.763E-06	.022	.018	6.272E-09	10.83	.78	.50	.022	.002	.002
44	75.0	-11.27	3.82	-3.81	-7.62	3.62	-2.64	-1.423E-04	.002	.002	-2.734E-08	10.83	.78	.50	.002	-.048	-.058
45	75.0	12.37	.29	-7.77	7.62	4.91	-2.17	3.539E-05	.022	.002	7.233E-09	10.95	.79	.50	.013	.012	.017
46	75.0	11.93	.31	-7.72	7.62	3.42	-2.09	1.748E-05	.004	.003	5.517E-09	10.95	.79	.50	.004	.006	.008

ORIGINAL PAGE IS
OF POOR QUALITY

CFHT TEST (92), MDAC-E RSI GAPS, RUN ( ) 1973 PAGE 90

CP	GAMMA (DEG)	XSURF (CM)	XP (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	N-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
46																	
47	60.0	8.22	.27	-7.35	7.62	1.16	-2.55	1.873E-05	.024	.021	3.817E-08	11.39	.82	.50	.024	.007	.007
48	60.0	7.93	.36	-7.26	7.62	.33	-2.48	1.836E-03	.430	.383	3.848E-05	11.40	.82	.50	.430	.383	.414
49	60.0	7.31	.35	-7.27	7.31	1.00	-2.64	2.436E-03	1.000	.890	2.163E-04	11.38	.82	.50		.918	
50	60.0	3.69	.29	-7.33	3.69	1.00	-4.52	2.933E-03	1.238	1.046	[illegible]59E-04	11.08	.82	.50		1.048	
51	60.0	0.00	.22	-7.50	0.00	1.00	-6.41	2.375E-03	1.004	.780	[illegible]7E-04	10.62	.77	.50		.781	
52	60.0	-3.55	.27	-7.[illegible]	-3.53	1.00	-8.15	2.218E-03	.924	.655	1.[illegible]48E-04	10.45	.73	.50		.665	
53	60.0	-7.24	.46	-7.16	-7.24	1.00	-3.82	1.624E-03	.676	.437	7.230E-05	9.40	.69	.50		.452	
54	60.0	-7.63	.36	-7.25	-7.62	.31	-10.10	9.426E-04	.396	.252	2.369E-05	9.28	.68	.50	.585	.255	.562
55	60.0	-8.69	.32	-7.37	-7.62	1.11	-10.13	7.580E-05	.034	.022	1.651E-07	9.26	.68	.50	.051	.023	.045
56																	
57																	
58																	
59	60.0	-13.21	.37	-7.25	-7.62	5.62	-10.19	-7.174E-05	.043	.002	-1.344E-08	9.28	.68	.50	.064	-.219	-.843
60	60.0	7.14	[illegible]	-7.62	7.14	.27	-3.03	1.124E-03	.475	.419	4.697E-05	11.33	.82	.50	.475	.420	.458
61	60.0	7.35	[illegible]	-7.62	7.35	1.17	-2.53	6.565E-05	.029	.026	1.677E-07	11.34	.82	.50	.029	.025	.027
62																	
63																	
64																	
65	60.0	7.14	[illegible]	-7.62	7.14	5.63	-3.03	1.041E-06	.000	.000	3.309E-11	11.33	.82	.50	.000	.000	.000
66	60.0	3.44	[illegible]	-7.62	3.44	.36	-4.88	1.372E-03	.501	.483	6.615E-05	11.00	.79	.50	.469	.483	.461
67	60.0	3.44	[illegible]	-7.62	3.44	1.19	-4.88	5.369E-05	.023	.019	1.312E-07	11.00	.79	.50	.018	.019	.018
68																	
69																	
70																	
71																	
72																	
73	60.0	0.00	[illegible]	-7.62	0.00	1.15	-6.60	6.479E-05	.027	.021	1.332E-07	10.56	.77	.50	.027	.021	.027
74																	
75																	
76	60.0	0.00	[illegible]	-7.62	0.00	5.99	-6.61	-1.981E-05	.002	.002	-3.338E-09	10.56	.77	.50	.002	-.006	-.040
77	60.0	0.00	[illegible]	-7.62	0.00	5.74	-6.61	-2.737E-05	.001	.001	-2.439E-09	10.56	.77	.50	.001	-.009	-.011
78	60.0	-3.59	[illegible]	-7.62	-3.53	.38	-8.39	9.728E-04	.396	.277	2.677E-05	9.97	.73	.50	.428	.287	.432
79	60.0	-3.63	[illegible]	-7.62	-3.63	1.17	-8.41	1.024E-04	.025	.018	1.814E-07	9.96	.73	.50	.028	.030	.045
80																	
81																	
82																	
83																	
84	60.0	-7.33	[illegible]	-7.62	-7.33	.31	-10.26	9.860E-04	.414	.261	2.560E-05	9.21	.68	.50	.612	.264	.583
85	60.0	-7.36	[illegible]	-7.62	-7.35	1.09	-10.23	5.454E-05	.025	.016	8.635E-08	9.20	.68	.50	.037	.015	.032
86																	
87																	
88																	
89	60.0	-7.35	[illegible]	-7.62	-7.35	5.66	-10.27	-8.584E-05	.000	.000	-2.598E-09	9.20	.68	.50	.001	-.023	-.051

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SPECIFIC HEAT CORRECTED

C#	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CP)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/NF	HTC/HEC
90	45.0	12.72	7.62	7.62	7.62	3.63	5.39	6.287E-05	.283	.283	1.673E-12	11.40	.80	.50	.434	.222	.435
91	45.0	11.34	7.62	7.62	7.62	3.54	5.39	1.212E-05	.268	.268	2.617E-12	11.26	.80	.50	.433	.864	.887
92	45.0	9.97	7.62	7.62	7.62	1.41	5.39	7.663E-06	.332	.332	2.043E-05	11.68	.80	.50	.443	.883	.884
93	45.0	8.60	7.62	7.62	7.62	1.15	5.39	1.426E-05	.618	.618	2.272E-05	11.68	.80	.50	.459	.885	.442
94	45.0	7.27	7.62	7.62	7.62	1.16	5.39	2.935E-05	1.272	1.272	2.243E-05	11.68	.80	.50		.942	
95	45.0	5.93	7.62	7.62	7.62	1.41	5.39	-1.115E-05	.472	.472	4.242E-05	10.68	.79	.50	.428	.362	.406
96	45.0	4.58	7.62	7.62	7.62	3.75	5.39	-1.745E-05	.738	.738	-4.679E-05	10.68	.79	.50	.428	-.936	-.886
97	45.0	3.25	7.62	7.62	7.62	3.74	5.39	1.867E-05	.790	.790	3.166E-09	10.68	.79	.50	.452	.006	.007
98	45.0	1.91	7.62	7.62	7.62	3.74	5.39	1.864E-05	.789	.789	3.166E-09	10.68	.79	.50		.006	.007
99	45.0	.58	7.62	7.62	7.62	3.74	5.39	1.864E-05	.789	.789	3.166E-09	10.68	.79	.50		.006	.007
100	45.0	-.75	7.62	7.62	7.62	3.74	5.39	1.864E-05	.789	.789	3.166E-09	10.68	.79	.50		.006	.007
101	45.0	-2.08	7.62	7.62	7.62	3.74	5.39	1.864E-05	.789	.789	3.166E-09	10.68	.79	.50		.006	.007
102	45.0	-3.42	7.62	7.62	7.62	3.74	5.39	1.864E-05	.789	.789	3.166E-09	10.68	.79	.50		.006	.007
103	45.0	-4.75	7.62	7.62	7.62	3.74	5.39	1.864E-05	.789	.789	3.166E-09	10.68	.79	.50		.006	.007
104	45.0	-6.08	7.62	7.62	7.62	3.74	5.39	1.864E-05	.789	.789	3.166E-09	10.68	.79	.50		.006	.007
105	45.0	-7.42	7.62	7.62	7.62	3.74	5.39	1.864E-05	.789	.789	3.166E-09	10.68	.79	.50		.006	.007
106	45.0	-8.75	7.62	7.62	7.62	3.74	5.39	1.864E-05	.789	.789	3.166E-09	10.68	.79	.50		.006	.007
107	45.0	-10.08	7.62	7.62	7.62	3.74	5.39	1.864E-05	.789	.789	3.166E-09	10.68	.79	.50		.006	.007
108	45.0	-11.42	7.62	7.62	7.62	3.74	5.39	1.864E-05	.789	.789	3.166E-09	10.68	.79	.50		.006	.007
109	45.0	-12.75	7.62	7.62	7.62	3.74	5.39	1.864E-05	.789	.789	3.166E-09	10.68	.79	.50		.006	.007
110	45.0	-13.24	4.0	-7.62	-7.62	5.59	-7.95	5.947E-05	.003	.812	1.435E-08	10.13	.74	.50	.004	.016	.025
111	45.0	12.57	.29	-7.37	7.62	7.31	.21	5.698E-05	.432	.801	7.936E-09	11.56	.83	.53	.452	.369	.421
																.977	
																.194	
																1.624	
																.973	
																-.267	
																-.977	
																-.194	
																-1.624	
																-.973	
																.267	
																-.408	
																-.809	
																.406	
																.809	

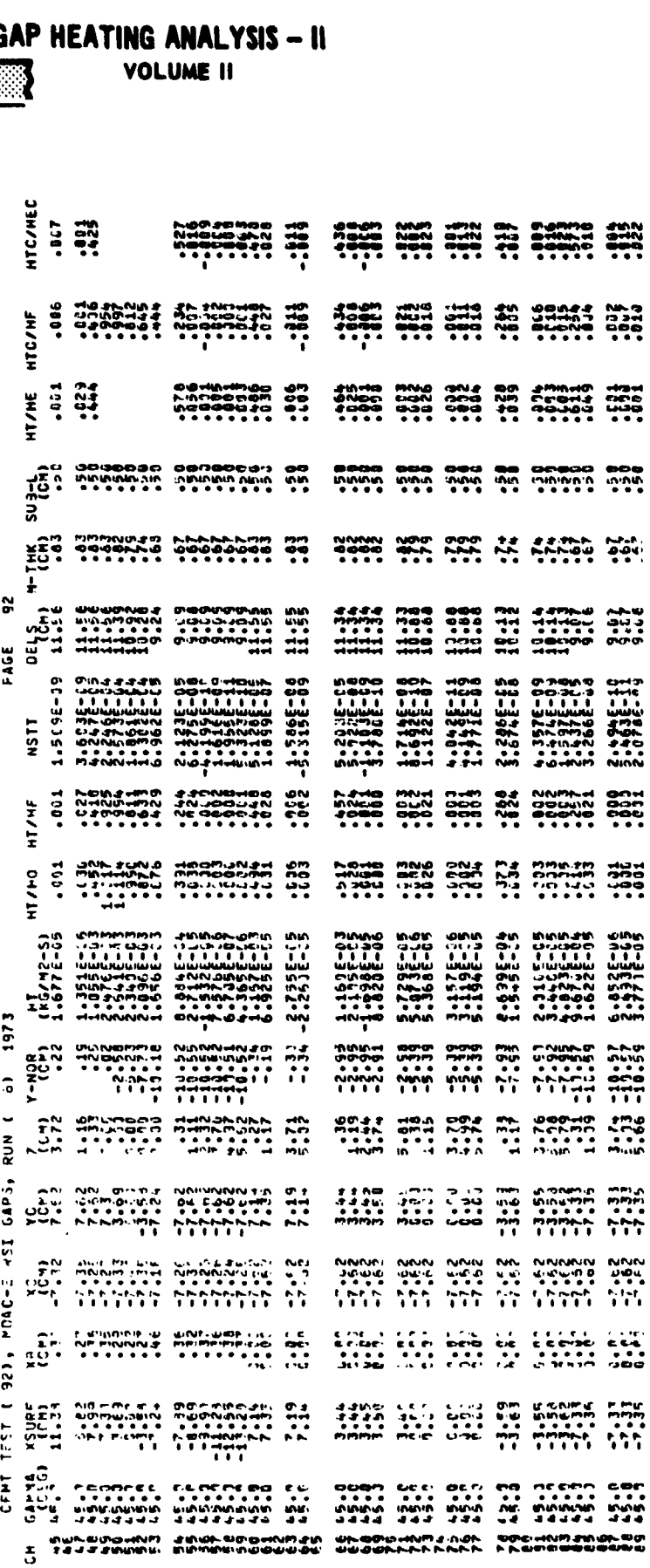
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HEC, CONDUCTION CORRECTED HT/HE

TAN/TT =1.895 FOR HT/HO
XSURF =SURFACE DISTANCE
(FLOW DIRECTION)

TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

MACH	= 1.0227
RX/FOOT	= 1.0000E+06
REYNOLDS/FOOT	= 3.2808E+06 (N/M2-K)
TWO	= 5.5556E+02 (K)
STEP	= 5.0800E-03 (CM)
TT	= 1.014E+03(K)
PT	= 6.1872E+06(N/M2)
PI	= 4.7713E+01(K)
(RHO V)1	= 9.8476E+01(KG/M2-S)
GAB	= 1.0325E+01(KG/M2-S)
CONF	=STAG

ORIGINAL PAGE IS
OF POOR QUALITY



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SPECIFIC HEAT CORRECTED

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/NF	HTC/NEC
1	90.0	13.334	7.662	7.662	7.662	5.760	2.880	7.419E-05	.001	.001	0.382E-09	11.556	.83	.508	.003	.429	.858
2	90.0	12.334	7.662	7.662	7.662	3.996	1.998	1.239E-04	.002	.001	0.991E-09	11.556	.83	.508	.008	.429	.858
3	90.0	11.334	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
4	90.0	10.334	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
5	90.0	9.334	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
6	90.0	8.334	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
7	90.0	7.334	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
8	90.0	6.334	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
9	90.0	5.334	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
10	90.0	4.334	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
11	90.0	3.334	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
12	90.0	2.334	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
13	90.0	1.334	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
14	90.0	.334	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
15	90.0	-.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
16	90.0	-1.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
17	90.0	-2.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
18	90.0	-3.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
19	90.0	-4.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
20	90.0	-5.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
21	90.0	-6.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
22	90.0	-7.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
23	90.0	-8.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
24	90.0	-9.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
25	90.0	-10.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
26	90.0	-11.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
27	90.0	-12.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
28	90.0	-13.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
29	90.0	-14.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
30	90.0	-15.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
31	90.0	-16.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
32	90.0	-17.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
33	90.0	-18.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
34	90.0	-19.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
35	90.0	-20.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
36	90.0	-21.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
37	90.0	-22.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
38	90.0	-23.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
39	90.0	-24.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
40	90.0	-25.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
41	90.0	-26.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
42	90.0	-27.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
43	90.0	-28.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
44	90.0	-29.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
45	90.0	-30.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
46	90.0	-31.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
47	90.0	-32.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
48	90.0	-33.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
49	90.0	-34.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
50	90.0	-35.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
51	90.0	-36.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
52	90.0	-37.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
53	90.0	-38.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
54	90.0	-39.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
55	90.0	-40.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
56	90.0	-41.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
57	90.0	-42.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
58	90.0	-43.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
59	90.0	-44.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858
60	90.0	-45.666	7.662	7.662	7.662	1.233	.616	4.345E-05	.001	.001	2.282E-07	11.556	.83	.508	.003	.429	.858

TAN/TT = .298 FOR HT/HO
XSURF = SURFACE DISTANCE (FLOW DIRECTION) (BODY OR 90 DEG) TO EDGE AT TILE TOP
HT/HE, GAP HEATING RATIOED TO FLAT PLATE
HTC/NEC, CONDUCTION CORRECTED HT/HE

TILE COORDINATES(GAMMA=0.)
X3 = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

MACH	= 10.298
RX ERS	= 5.966E-01
RE/FEET	= 7.917E+06
RE/METER	= 3.117E+06
HO	= 2.611E+08 (W/M2-K)
TW	= 294.1 (K)
STEP	= 5.080 (CM)
TT	= 1.025E+03 (K)
PI	= 5.165E+04 (N/M2)
TI	= 4.839E+01 (K)
PI	= 9.781E+01 (N/M2)
CRHO VII	= 1.211E-01 (KG/M2-S)
GAP	= .229 (CM)
CONF	= STAG

ORIGINAL PAGE IS
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CFHT TEST (920, PAGE 94 RSI GAPS, RUN (14) 1973

CP	GAMMA (DEG)	XSURF (CM)	X3 (CM)	XG (CM)	YG (CM)	Z (CM)	Y-NOR (CM)	PI (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/MEC
45	90.0	-3.39	-7.62	-7.62	-3.83	1.39	-7.62	1.193E-03	.541	.373	4.415E-05	10.24	.74	.58	.846	.369	.429
46	90.0	-3.68	-7.62	-7.62	-3.83	1.17	-7.62	8.663E-05	.244	.972	2.138E-07	10.24	.74	.58	.839	.821	.824
47	90.0	-3.96	-7.62	-7.62	-3.96	3.76	-7.62	-1.215E-04	.603	.602	-2.876E-08	10.24	.74	.58	.803	-.038	-.044
48	90.0	-7.33	-7.62	-7.62	-7.33	.31	-7.62	1.246E-03	.531	.388	4.806E-05	10.24	.74	.50	.592	.366	.558
49	90.0	-7.35	-7.62	-7.62	-7.34	1.39	-7.62	1.532E-05	.033	.824	3.684E-08	10.24	.74	.50	.037	.665	.807
50	90.0	-7.33	-7.62	-7.62	-7.33	3.74	-7.62	4.135E-05	.006	.330	2.174E-10	10.24	.74	.50	.003	.814	.885
51	90.0	-7.33	-7.62	-7.62	-7.33	5.83	-7.62	8.171E-05	.002	.411	6.985E-09	10.24	.74	.50	.002	.816	.823

3.4- 20

CFHT TEST (920, MDAC-E PSI GAPS, RUN (15) 1973 PAGE 95

MACH = 1.25E+01 TT = 1.667E+0 K)
RX ECC = 5.000E-01 PT = 5.164E+6 (N/M2)
RN/FT = 3.225E+04 PI = 2.074E+4 (KG/M2-S)
RHO = 3.534E+01 (RHO V)1 = 1.329E+4 (KG/M2-S)
TIME = 29.0 (S) TAO = 1.329 (CM)
STEP = 29.0 (CM) CONF =STAG

TILE COORDINATES(GAMMA,G
XB = X-COOR. FROM TILE LEFT
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

TAW/TT =0.95E FOR HT/HO
XSURF = SURFACE DISTANCE (CM)
(FLOW DIRECTION)
HT/HF, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HEC, CONDUCTION CORRECTED HT/HF

GAMMA (DEG)	XSURF (CM)	X3 (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	PT (KG/M2-S)	HT/HO	HT/HF	NST	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
62.5	12.63	1.62	7.62	5.04	-2.78	3.464E-5	.603	.823	1.051E-08	11.36	.82	.5C	.855	.813	.818
62.5	13.39	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	13.72	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	14.05	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	14.38	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	14.71	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	15.04	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	15.37	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	15.70	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	16.03	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	16.36	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	16.69	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	17.02	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	17.35	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	17.68	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	18.01	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	18.34	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	18.67	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	19.00	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	19.33	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	19.66	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	19.99	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	20.32	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	20.65	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	20.98	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	21.31	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	21.64	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	21.97	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	22.30	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	22.63	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	22.96	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	23.29	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	23.62	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	23.95	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	24.28	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	24.61	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	24.94	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	25.27	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	25.60	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	25.93	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	26.26	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	26.59	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	26.92	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	27.25	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	27.58	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	27.91	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	28.24	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	28.57	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	28.90	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	29.23	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	29.56	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	29.89	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	30.22	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	30.55	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	30.88	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	31.21	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	31.54	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	31.87	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	32.20	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	32.53	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	32.86	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815
62.5	33.19	1.62	7.62	5.03	.999	6.542E-05	.001	.001	2.348E-09	11.25	.83	.50	.856	.815	.815

CFMT TEST (92), MPAC-E RSI GAPS, RUN (16) 1973 PAGE 97

MACH = 10.290 TT = 1.097E+03(K)
RX FT6 = 5.766E-01 PI = 5.135E+06(N/M2)
RL FT6 = 6.2[illegible]E-02 T1 = 4.744E+01(K)
RE/METER = 3.23[illegible]E+06 P1 = 9.635E+01(N/M2)
HO = 2.619E+0[illegible](W/M2-K) (RHO V)1 = 1.024E+01(KG/M2-S)
TW = 298.1 (K) GAP = .229 (CM)
STEF = [illegible](CM) CONF = STAG

TAW/TT = 0.995 FOR HT/HO TILE COORDINATES(GAMMA=0.0)
XSURF = SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 OR 90 DEG) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	W-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	75.0	13.39	7.62	[illegible]	7.62	3.70	1.97	4.611E-05	.002	.001	6.126E-09	11.50	.83	.30	.002	.017	.032
10	75.0	12.72	7.62	[illegible]	7.62	3.03	1.97	3.232E-05	.002	.002	6.118E-09	11.50	.83	.30	.004	.012	.022
11																	
12																	
13	75.0	3.83	7.62	[illegible]	7.62	1.14	1.97	5.949E-05	.051	.046	2.656E-07	11.50	.83	.50	.044	.023	.041
14	75.0	[illegible]	7.62	[illegible]	7.62	.33	1.97	6.399E-04	.269	.241	1.511E-05	11.50	.83	.30	.444	.251	.439
15	75.0	7.29	7.62	[illegible]	7.23	3.00	1.89	1.436E-03	.605	.542	7.747E-05	11.50	.83	.50		.531	
16	75.0	3.67	7.62	[illegible]	3.63	3.00	.94	2.723E-03	1.150	1.039	2.776E-04	11.50	.83	.30		1.042	
17	75.0	[illegible]	7.62	[illegible]	[illegible]	3.00	0.00	2.910E-03	1.239	1.126	3.243E-04	11.50	.83	.30		1.126	
18	75.0	-3.54	7.62	0.00	-3.54	3.00	-.92	3.019E-03	1.286	1.163	3.446E-04	11.50	.83	.50		1.155	
19	75.0	-7.27	7.62	[illegible]	-7.27	3.00	-1.83	2.844E-03	1.195	1.071	2.990E-05	11.48	.82	.60		1.060	
20	75.0	-7.37	7.62	[illegible]	-7.62	.41	-1.97	1.231E-03	.543	.487	5.379E-05	11.45	.82	.30	.455	.467	.433
21	75.0	-8.72	7.62	[illegible]	-7.62	1.17	-1.97	3.113E-05	.051	.046	-1.430E-[illegible]	11.48	.82	.50	.043	-.012	-.011
22	75.0	-9.94	7.62	[illegible]	-7.62	2.39	-1.97	-7.619E-06	.031	.001	-5.144E-13	11.45	.82	.50	.031	-.003	-.003
23																	
24	75.0	-12.62	7.62	[illegible]	-7.62	3.07	-1.97	2.375E-05	.002	.001	3.293E-09	11.48	.82	.30	.031	.009	.008
25	75.0	-13.29	7.62	[illegible]	-7.62	3.73	-1.97	3.211E-05	.002	.002	5.783E-09	11.48	.83	.30	.032	.012	.011
26	75.0	13.73	3.86	-3.76	7.62	3.70	-1.66	-1.248E-04	.001	.001	-8.798E-09	11.48	.83	.30	.001	-.047	-.063
27																	
28																	
29																	
30	75.0	8.37	3.79	-3.83	7.62	1.16	-1.73	7.256E-05	.035	.031	2.227E-07	11.47	.82	.50	.448	.028	.037
31	75.0	7.07	3.72	-3.37	7.62	.33	-1.76	8.728E-04	.304	.327	2.502E-05	11.47	.82	.30	.449	.332	.438
32	75.0	7.24	3.87	-3.70	7.24	1.30	-1.79	1.932E-03	.813	.735	1.436E-04	11.47	.82	.20		.757	
33	75.0	3.71	3.7[illegible]	-3.63	3.71	1.00	-2.83	2.9[illegible]E-03	1.225	1.[illegible]	3.094E-04	11.38	.82	.20		1.089	
34	75.0	[illegible]	3.67	-3.95	[illegible]	3.00	-3.52	2.815E-03	1.198	1.[illegible]40	2.893E-04	11.20	.81	.30		1.042	
35	75.0	-3.59	3.73	-3.89	-3.[illegible]	[illegible]	-4.65	2.938E-03	1.239	1.[illegible]	2.994E-04	11.14	.80	.50		1.042	
36	75.0	-7.29	3.89	-3.74	-7.23	1.03	-5.56	2.562E-03	1.362	.8[illegible]0	2.162E-04	10.65	.78	.58		.878	
37	75.0	-7.[illegible]	3.87	-3.70	-7.62	.37	-5.63	1.147E-03	.460	.340	4.165E-05	10.62	.78	.50	.433	.391	.449
38	75.0	-9.75	3.88	-3.74	-7.62	1.15	-5.59	1.307E-04	.330	.324	3.12[illegible]E-07	10.63	.78	.50	.028	.045	.051
39																	
40																	
41																	
42																	
43	75.0	13.77	.22	-[illegible].3[illegible]	7.62	3.73	-5.12	-1.198E-04	.000	.0[illegible]	-8.86[illegible]	10.64	.73	.50	.000	-.042	-.052
44																	

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ORIGINAL PAGE IS OF POOR QUALITY.

CFHT TEST (521), MDAC-2 PSI GAPS, RUN (16) 1973 PAGE 98

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
45																	
46																	
47	75.0	8.82	.27	-7.31	7.62	1.15	-5.12	9.351E-05	.44	.036	3.312E-07	10.94	.79	.50	.046	.333	.040
48	75.0	9.93	.36	-7.26	7.62	.33	-5.04	1.342E-03	.437	.361	3.694E-05	10.96	.79	.50	.461	.365	.491
49	75.0	7.32	.38	-7.27	7.30	1.00	-5.13	2.322E-03	.348	.780	1.778E-04	10.93	.79	.50		.869	
50	75.0	3.63	.39	-7.33	3.63	1.20	-6.12	3.372E-03	1.296	1.321	3.079E-04	10.49	.77	.50		1.024	
51	75.0	0.02	.22	-7.42	0.00	3.00	-7.13	2.733E-03	1.154	.864	2.317E-04	10.39	.75	.50		.866	
52	75.0	-3.53	.27	-7.36	-3.53	1.00	-8.03	2.949E-03	1.163	.758	1.497E-04	10.18	.74	.50		.778	
53	75.0	-7.24	.46	-7.16	-7.23	1.00	-8.79	1.633E-03	.773	.428	9.756E-05	9.82	.72	.50		.428	
54	75.0	-7.89	.36	-7.25	-7.72	.31	-8.59	1.049E-03	.447	.362	3.107E-05	9.75	.71	.50	.078	.360	.051
55	75.0	-3.69	.32	-7.3	-7.42	1.11	-9.02	6.317E-05	.045	.032	1.989E-07	9.73	.71	.50	.062	.018	.033
56																	
57	75.0	-11.29	.36	-7.26	-7.62	3.71	-4.58	9.935E-06	.032	.011	1.372E-09	9.74	.71	.50	.023	.003	.005
58	75.0	-12.83	.38	-7.24	-7.62	4.97	-5.97	2.211E-05	.001	.001	1.349E-09	9.75	.71	.50	.071	.006	.015
59	75.0	-13.29	.37	-7.25	-7.62	5.52	-8.98	3.307E-05	.002	.002	5.395E-09	9.75	.71	.53	.003	.009	.017
60	75.0	7.14	3.00	-7.62	7.14	.27	-5.51	1.160E-03	.790	.396	4.309E-06	10.09	.70	.50	.617	.397	.491
61	75.0	7.35	3.00	-7.52	7.35	1.17	-5.46	1.201E-04	.052	.042	4.960E-07	10.66	.70	.50	.056	.041	.051
62																	
63																	
64	75.0	7.14	3.00	-7.62	7.14	5.02	-5.51	5.431E-06	.031	.001	6.459E-1[illegible]	10.65	.70	.50	.002	.002	.002
65																	
66	75.0	3.44	3.00	-7.62	3.44	.36	-6.47	1.532E-03	.648	.512	7.530E-05	10.68	.77	.50	.499	.502	.498
67	75.0	3.44	0.00	-7.62	3.44	1.19	-6.47	9.245E-05	.039	.033	2.750E-07	10.60	.77	.50	.030	.033	.030
68																	
69	75.0	3.49	3.00	-7.62	3.50	3.74	-6.45	-1.710E-06	.000	.000	-8.704E-12	10.68	.77	.50	.000	-.001	-.001
70	75.0	3.46	3.00	-7.62	3.46	5.04	-6.46	4.930E-14	.000	.000	7.981E-26	10.60	.77	.50	.000	.000	.000
71	75.0	3.40	3.00	-7.62	3.40	5.01	-5.49	7.449E-19	.000	.000	1.784E-29	10.49	.77	.50	.000	.000	.000
72	75.0	0.00	3.00	-7.62	0.00	.38	-7.36	4.772E-07	.003	.000	9.998E-12	10.32	.75	.50	.004	.000	.009
73	75.0	0.00	3.00	-7.62	0.00	1.15	-7.36	7.530E-05	.033	.025	1.021E-07	10.32	.75	.50	.029	.024	.027
74																	
75	75.0	0.00	3.00	-7.62	0.00	3.70	-7.36	1.413E-05	.002	.002	2.417E-09	10.32	.75	.50	.002	.011	.008
76	75.0	0.00	3.00	-7.62	0.00	4.39	-7.36	4.036E-05	.002	.005	6.493E-09	10.32	.75	.50	.002	.013	.015
77	75.0	0.00	3.00	-7.62	0.00	5.74	-7.36	6.082E-05	.004	.003	1.887E-08	10.32	.75	.50	.014	.019	.022
78	75.0	-3.59	3.00	-7.62	-3.59	.38	-8.39	1.141E-03	.486	.328	3.678E-05	10.00	.73	.50	.439	.339	.461
79	75.0	-3.63	3.00	-7.62	-3.63	1.19	-8.39	1.436E-04	.041	.029	4.108E-07	10.00	.73	.53	.234	.043	.036
80																	
81																	
82																	
83																	
84	75.0	-7.33	3.00	-7.62	-7.33	.31	-9.26	1.071E-03	.467	.311	3.272E-05	9.63	.71	.52	.635	.322	.854
85	75.0	-7.36	3.00	-7.62	-7.35	1.19	-9.28	4.339E-06	.032	.321	8.968E-09	9.63	.71	.53	.339	.041	.002
86	75.0	-7.36	3.00	-7.62	-7.35	2.36	-9.26	-1.229E-05	.002	.021	-1.751E-09	9.63	.71	.53	.333	-.313	-.066
87																	
88																	
89	75.0	-7.38	3.0	-7.62	-7.34	3.65	-9.75	1.146E-04	.003	.002	2.376E-08	9.63	.71	.50	.004	.032	.059

3.4-32

CFHT TEST (92), MDAC-E RSI GAPS, RUN (1?) 1973 PAGE 95

MACH = 1?.23?
RX EFS = ?.7??E-11
PL EFS = 8.154E-12
RE/METER = 3.226E+06
HO = 2.619E+03 (W/M2-K)
TW = 299.1 (K)
STEP = 0.??? (CM)

TT = 1.037E+03 (K)
PI = 9.164E+06 (N/M2)
T1 = 4.747E+01 (K)
P1 = 9.833E+01 (N/M2)
(RHO V)1 = 1.323E+01 (KG/M2-S)
GAP = .229 (CM)
CONF = STAG

TAW/TT = 0.895 FOR HT/HO
XSURF = SURFACE DISTANCE (FLOW DIRECTION) (?.? OR 9? DEG.)
TILE COORDINATES (GAMMA=?.?)
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HF, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	60.0	13.72	7.62	[illegible]	7.62	[illegible]	3.81	4.334E-05	.061	.001	3.416E-09	11.29	.81	.50	.031	.016	.020
10	[illegible]	12.72	7.62	[illegible]	7.62	[illegible]	3.81	3.215E-05	.002	.002	9.037E-09	11.29	.81	.50	.003	.012	.021
11																	
12																	
13	60.0	8.83	7.62	[illegible]	7.62	1.14	3.81	2.284E-05	.032	.028	6.230E-08	11.29	.81	.50	.049	.038	.015
14	[illegible]	8.02	7.62	[illegible]	7.62	.33	3.81	6.959E-04	.291	.255	1.742E-05	11.29	.81	.50	.446	.258	.443
15	[illegible]	7.20	7.62	[illegible]	7.29	[illegible]	3.69	1.566E-03	.653	.573	8.801E-05	11.32	.82	.50		.541	
16	[illegible]	3.63	7.62	[illegible]	3.63	[illegible]	[illegible]	2.695E-03	1.139	1.022	[illegible]	11.51	.83	.50		1.024	
17	[illegible]	[illegible]	7.62	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.203	1.095	[illegible]	11.56	.83	.50		1.065	
18	[illegible]	-3.54	7.62	[illegible]	-3.54	[illegible]	-1.77	2.942E-03	[illegible]	1.127	3.235E-04	11.47	.82	.50		1.095	
19	[illegible]	-7.27	7.62	[illegible]	-7.27	[illegible]	-3.63	2.914E-03	1.225	1.068	3.055E-04	11.24	.81	.50		1.075	
20	[illegible]	-7.97	7.62	[illegible]	[illegible]	.41	-3.81	1.394E-03	.584	.527	6.890E-05	11.21	.81	.50	.476	.509	.473
21	[illegible]	-8.72	7.62	[illegible]	-7.62	1.17	-3.81	3.856E-05	.041	.036	1.355E-07	11.21	.81	.50	.034	.014	.013
22																	
23																	
24	60.0	-12.63	7.62	[illegible]	-7.62	3.97	-3.81	5.016E-05	[illegible]	.004	2.196E-08	11.21	.81	.50	.034	.018	.017
25	[illegible]	-13.24	7.62	[illegible]	-7.62	3.73	-3.81	6.177E-05	[illegible]	.003	1.640E-08	11.21	.81	.50	.063	.023	.021
26	[illegible]	13.35	3.96	-3.75	7.62	3.79	.55	5.357E-05	.003	.003	1.642E-08	11.56	.83	.30	.054	.021	.024
27	60.0	12.68	3.82	[illegible]	7.62	3.04	.52	3.869E-05	.003	.003	1.036E-08	11.56	.83	.50	.003	.015	.017
28																	
29																	
30	60.0	9.69	3.70	-3.83	7.62	1.16	.49	-4.819E-06	.119	.017	-6.174E-09	11.56	.83	.50	.621	-.002	-.062
31	[illegible]	7.37	3.75	-3.87	7.62	.33	.46	9.691E-04	.437	.369	3.516E-05	11.56	.83	.50	.445	.372	.438
32	[illegible]	7.24	[illegible]	-3.70	7.24	[illegible]	.24	[illegible]	.914	.829	1.799E-04	11.56	.83	.50		.869	
33	[illegible]	3.51	[illegible]	-3.92	[illegible]	[illegible]	-1.54	3.024E-03	1.278	1.149	3.410E-04	11.49	.83	.50		1.151	
34	[illegible]	[illegible]	3.67	[illegible]	[illegible]	[illegible]	-3.42	2.829E-03	1.196	1.147	2.999E-04	11.27	.81	.50		1.049	
35	[illegible]	-3.53	3.77	-3.89	-3.59	[illegible]	-5.10	2.862E-03	[illegible]	.993	2.786E-04	11.43	.79	.50		.996	
36	[illegible]	-7.25	3.68	-3.74	-7.23	[illegible]	-6.88	2.514E-03	1.043	.791	1.952E-04	11.47	.76	.50		.807	
37	[illegible]	-7.67	3.33	-3.70	-7.62	.37	-7.29	1.094E-03	.461	.346	3.714E-05	11.41	.76	.50	.442	.348	.431
38	[illegible]	-3.7?	3.68	-3.74	-7.62	1.15	-7.05	-6.198E-06	.021	.016	-9.497E-09	11.42	.76	.50	.020	-.002	-.002
39																	
40																	
41	60.0	-12.64	[illegible]	-3.67	-7.62	3.94	-6.59	3.732E-05	.032	.001	4.330E-09	10.44	.76	.50	.032	.212	.015
42	[illegible]	-13.29	[illegible]	-3.62	-7.62	2.58	[illegible]	5.228E-05	.002	.001	5.894E-09	10.46	.76	.50	.001	.217	.021
43	[illegible]	13.37	.27	[illegible]	7.62	2.76	-2.55	2.425E-05	.003	.001	6.006E-10	11.39	.82	.50	[illegible]	.009	.009
44	[illegible]	12.57	.20	[illegible]	7.62	4.91	-2.53	[illegible]	.001	.001	1.183E-09	11.39	.82	.50	.001	.007	.367

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ORIGINAL PAGE IS
OF POOR QUALITY

CFHT TEST (92), MDAC-E RSI GAPS, RUN (18) 1973

MACH = 1.20[illegible]
RX FG6 = 1.[illegible]E+05
RL FG6 = 8.[illegible]E-02
RE/METER = 3.21[illegible]E+06
HO = 2.519E+0[illegible](W/M2-K)
TW = [illegible](K)
STEP = [illegible](CM)

TT = 1.01[illegible]E+03(K)
PT = 5.1[illegible]E+06(N/M2)
T1 = 4.76[illegible]E+01(K)
P1 = 9.0[illegible]E+01(N/M2)
(RHO V)1 = 1.[illegible]E+01(KG/M2-S)
GAP = .229 (CM)
CONF = STAG

TAW/TT =0.89F FOR HT/HO
XSURF = SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)

TILE COORDINATES(GAMMA=0.0)
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9																	
10																	
11																	
12																	
13	45.0	3.83	7.62	[illegible]	7.62	1.14	5.39	1.431E-04	.33	.028	4.361E-07	11.6[illegible]	.83	.50	.044	.053	.083
14	45.0	4.02	7.62	[illegible]	7.62	.33	5.39	8.536E-04	.335	.282	2.357E-05	11.6[illegible]	.83	.50	.449	.303	.475
15	45.0	.29	7.62	[illegible]	7.29	0.00	5.16	1.776E-03	.745	.632	1.105E-04	11.65	.80	.50		.639	
16	45.0	3.63	7.62	[illegible]	3.63	0.00	2.57	2.744E-03	1.159	1.034	2.789E-04	11.45	.82	.50		1.036	
17	45.0	[illegible]	7.32	[illegible]	[illegible]	[illegible]	[illegible]	2.795E-03	1.180	1.074	2.949E-04	11.56	.83	.50		1.075	
18	45.0	-3.54	7.62	[illegible]	-3.54	0.06	-2.51	2.668E-03	1.223	1.092	3.077E-04	11.46	.82	.50		1.064	
19	45.0	-7.27	7.62	[illegible]	-7.27	0.00	-5.14	3.035E-03	1.263	1.039	3.070E-04	10.94	.79	.50		1.047	
20	45.0	-7.67	7.62	[illegible]	-7.62	[illegible]	-5.39	1.439E-03	.404	.491	4.927E-05	10.88	.79	.50	.478	.493	.471
21	45.0	-9.72	7.62	[illegible]	-7.62	1.17	-5.39	2.773E-05	.039	.031	3.545E-08	10.88	.79	.50	.031	.010	.009
22																	
23																	
24	45.0	-12.62	7.62	[illegible]	-7.62	5.07	-5.39	4.237E-06	.031	.001	2.376E-09	10.88	.79	.50	.001	.014	.016
25	45.0	-13.29	7.62	[illegible]	-7.62	5.73	-5.35	5.959E-05	.031	.001	3.408E-09	10.88	.79	.50	.001	.021	.020
26																	
27																	
28																	
29																	
30	45.0	8.21	3.79	-3.83	7.62	1.16	2.68	1.008E-04	.016	.014	1.369E-07	11.44	.82	.50	.016	.038	.042
31	45.0	7.97	3.75	-3.97	7.62	.33	2.65	1.195E-03	.445	.397	4.309E-05	11.44	.82	.50	.447	.417	.460
32	45.0	7.24	3.23	-3.70	7.24	0.00	2.44	2.399E-03	.995	.889	2.396E-04	11.46	.62	.50		.957	
33	45.0	3.71	[illegible]	-3.92	3.71	0.03	-.15	3.145E-03	1.328	1.208	3.733E-04	11.55	.83	.50		1.213	
34	45.0	[illegible]	3.6[illegible]	-3.95	[illegible]	[illegible]	-2.49	2.833E-03	1.200	1.165	2.971E-04	11.38	.82	.50		1.366	
35	45.0	-3.59	3.73	-3.89	-3.63	1.10	-5.29	2.833E-03	1.194	.976	2.715E-04	10.90	.79	.50		.979	
36	45.0	-7.28	3.88	-3.74	-7.21	[illegible]	-7.73	2.443E-03	1.[illegible]14	.733	1.761E-04	10.18	.74	.50		.748	
37	45.0	-7.97	3.83	-3.70	-7.62	.37	-8.07	1.375E-03	.451	.321	3.396E-05	10.08	.73	.50	.445	.324	.433
38	45.0	-9.75	3.8[illegible]	-3.74	-7.62	1.15	-9.03	4.858E-05	.025	.017	3.366E-08	10.10	.74	.50	.024	.015	.028
39																	
40																	
41																	
42	45.0	-13.29	4.8[illegible]	-3.62	-7.62	5.58	-7.95	-5.051E-05	.003	.012	-1.085E-06	10.12	.74	.50	.003	-.215	-.020
43	45.0	13.37	.27	-7.35	7.62	5.70	.19	1.298E-04	.000	.000	2.160E-09	11.56	.83	.50	.000	.050	.047
44																	
45																	

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CFHT TEST (92), *QAC-E FSI GAPS, RUN (16) 1973

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XG (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-SI)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTG/HF	HTG/HEG
1	45.0	-13.55	.39	-7.62	-7.62	5.63	-.34	4.976E-6	.001	.001	2.775E-10	11.55	.83	.50	.001	.002	.002
2	45.0	-13.55	.39	-7.62	-7.62	5.63	-.34	4.976E-6	.001	.001	2.775E-10	11.55	.83	.50	.001	.002	.002
3	45.0	-13.55	.39	-7.62	-7.62	5.63	-.34	4.976E-6	.001	.001	2.775E-10	11.55	.83	.50	.001	.002	.002
4	45.0	-13.55	.39	-7.62	-7.62	5.63	-.34	4.976E-6	.001	.001	2.775E-10	11.55	.83	.50	.001	.002	.002
5	45.0	-13.55	.39	-7.62	-7.62	5.63	-.34	4.976E-6	.001	.001	2.775E-10	11.55	.83	.50	.001	.002	.002
6	45.0	-13.55	.39	-7.62	-7.62	5.63	-.34	4.976E-6	.001	.001	2.775E-10	11.55	.83	.50	.001	.002	.002
7	45.0	-13.55	.39	-7.62	-7.62	5.63	-.34	4.976E-6	.001	.001	2.775E-10	11.55	.83	.50	.001	.002	.002
8	45.0	-13.55	.39	-7.62	-7.62	5.63	-.34	4.976E-6	.001	.001	2.775E-10	11.55	.83	.50	.001	.002	.002
9	45.0	-13.55	.39	-7.62	-7.62	5.63	-.34	4.976E-6	.001	.001	2.775E-10	11.55	.83	.50	.001	.002	.002
10	45.0	-13.55	.39	-7.62	-7.62	5.63	-.34	4.976E-6	.001	.001	2.775E-10	11.55	.83	.50	.001	.002	.002
11	45.0	7.14	7.01	-7.62	7.14	5.63	-.34	4.976E-6	.001	.001	2.775E-10	11.55	.83	.50	.001	.002	.002
12	45.0	3.44	3.44	-7.62	3.44	.36	-2.93	4.511E-03	.632	.526	2.206E-07	11.34	.82	.50	.496	.562	.491
13	45.0	3.44	3.44	-7.62	3.44	1.19	-2.93	4.474E-05	.632	.526	2.206E-07	11.34	.82	.50	.225	.026	.024
14	45.0	3.45	3.45	-7.62	3.45	3.74	-2.91	8.559E-06	.998	.831	1.633E-08	11.34	.82	.50	.042	.003	.003
15	45.0	3.46	3.46	-7.62	3.46	3.74	-2.90	4.934E-06	.998	.831	1.633E-08	11.34	.82	.50	.043	.003	.003
16	45.0	3.46	3.46	-7.62	3.46	5.81	-2.88	7.734E-06	.998	.831	2.183E-09	11.33	.82	.50	.043	.003	.003
17	45.0	7.35	7.35	-7.62	7.35	1.17	-.13	9.149E-05	.030	.024	1.735E-07	10.48	.79	.30	.029	.025	.020
18	45.0	7.14	7.01	-7.62	7.14	5.63	-.34	4.976E-6	.001	.001	2.775E-10	11.55	.83	.50	.001	.002	.002
19	45.0	-3.61	-3.61	-7.62	-3.62	.74	-5.35	5.027E-05	.001	.001	3.199E-10	15.48	.74	.50	.001	.002	.002
20	45.0	-3.61	-3.61	-7.62	-3.62	.74	-5.35	5.027E-05	.001	.001	3.199E-10	15.48	.74	.50	.001	.002	.002
21	45.0	-3.61	-3.61	-7.62	-3.62	1.17	-5.33	6.677E-05	.032	.023	1.488E-07	10.12	.74	.50	.035	.023	.018
22	45.0	-3.53	0.00	-7.62	-3.58	.08	-7.92	-7.296E-05	.000	.000	-1.196E-09	10.14	.74	.50	.000	-.022	-.033
23	45.0	-7.33	-7.33	-7.62	-7.33	1.19	-10.57	6.937E-03	.632	.813	2.206E-05	9.08	.67	.30	.623	.823	.815
24	45.0	-7.33	-7.33	-7.62	-7.33	1.19	-10.57	6.937E-03	.632	.813	2.206E-05	9.08	.67	.30	.623	.823	.815

CFHT TEST (93), MDAC-E RSI GAPS, RUN (31) 1973

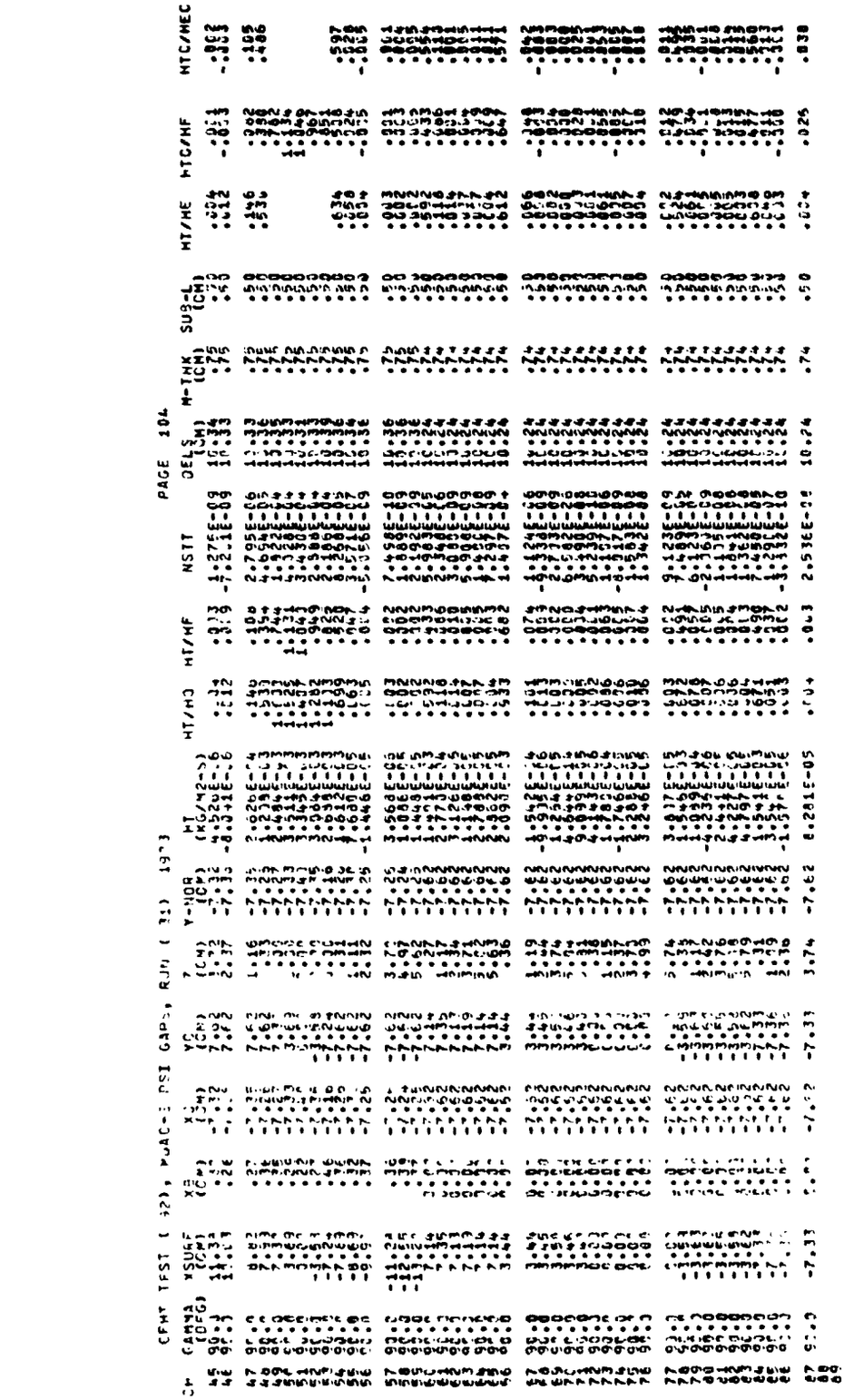
MACH = 1.297 TT = 1.122E+03(K)
REX/FT = 1.000E+06 PT = 6.412E+04(N/M2)
REX/METER = 3.281E+06 TI = 3.703E+02(K)
RHO = 2.284E-01(KG/M3) PI = 3.703E+04(N/M2)
TIME = 9.031 (SEC) (RHO V)I = 1.439 (KG/M2-S)
STEP = 2 GAP = STAG
CONF = STAG

TAW/TT =1.000 FOR HT/HO
XSURF =SURFACE DISTANCE
(FLOW DIRECTION)
HT/HE= GAP HEATING RATIOS TOO EDGE AT TILE TOP CORRECTED FOR HT/HE
HTC/HE= GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HE= CONDUCTION CORRECTED HT/HE

TILE COORDINATES(GAMMA=0.):
XB = X-CCOR. FROM TILE LE
XC = X-CCOR. FROM TILE CENTER
YC = Y-CCOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

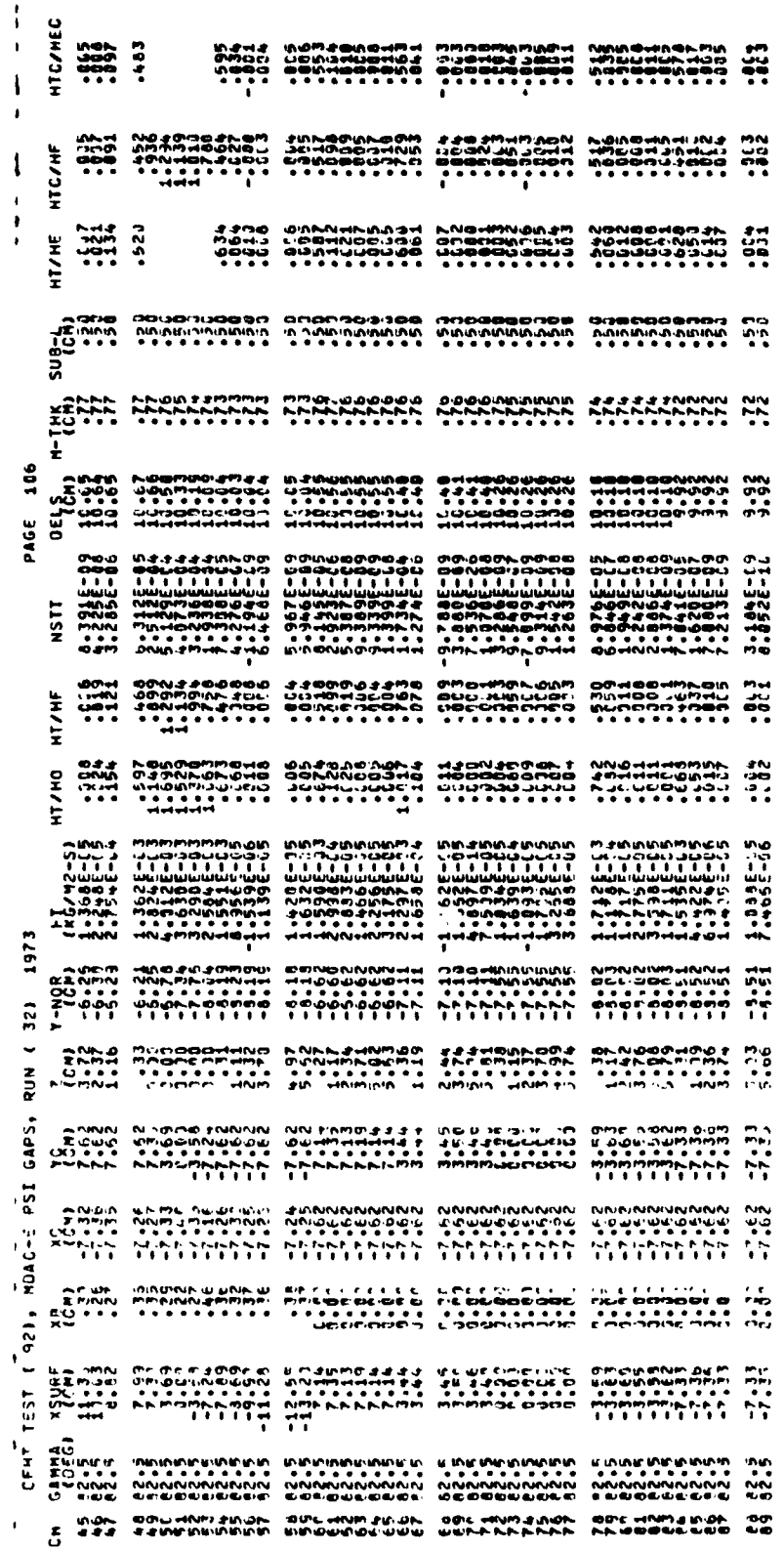
I	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	N-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	0.0	7.395	7.395	7.395	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
2	0.0	7.446	7.446	7.446	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
3	0.0	7.497	7.497	7.497	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
4	0.0	7.548	7.548	7.548	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
5	0.0	7.599	7.599	7.599	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
6	0.0	7.650	7.650	7.650	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
7	0.0	7.701	7.701	7.701	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
8	0.0	7.752	7.752	7.752	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
9	0.0	7.803	7.803	7.803	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
10	0.0	7.854	7.854	7.854	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
11	0.0	7.905	7.905	7.905	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
12	0.0	7.956	7.956	7.956	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
13	0.0	8.007	8.007	8.007	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
14	0.0	8.058	8.058	8.058	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
15	0.0	8.109	8.109	8.109	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
16	0.0	8.160	8.160	8.160	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
17	0.0	7.395	7.395	7.395	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
18	0.0	7.446	7.446	7.446	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
19	0.0	7.497	7.497	7.497	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
20	0.0	7.548	7.548	7.548	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
21	0.0	7.599	7.599	7.599	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
22	0.0	7.650	7.650	7.650	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
23	0.0	7.701	7.701	7.701	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
24	0.0	7.752	7.752	7.752	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
25	0.0	7.803	7.803	7.803	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
26	0.0	7.854	7.854	7.854	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
27	0.0	7.905	7.905	7.905	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
28	0.0	7.956	7.956	7.956	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
29	0.0	8.007	8.007	8.007	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
30	0.0	8.058	8.058	8.058	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
31	0.0	8.109	8.109	8.109	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000
32	0.0	8.160	8.160	8.160	0.000	0.000	6.144E+00	1.000	1.000	3.440E+01	5.556E-02	8.333E-02	5.556E-02	1.000	1.000	1.000



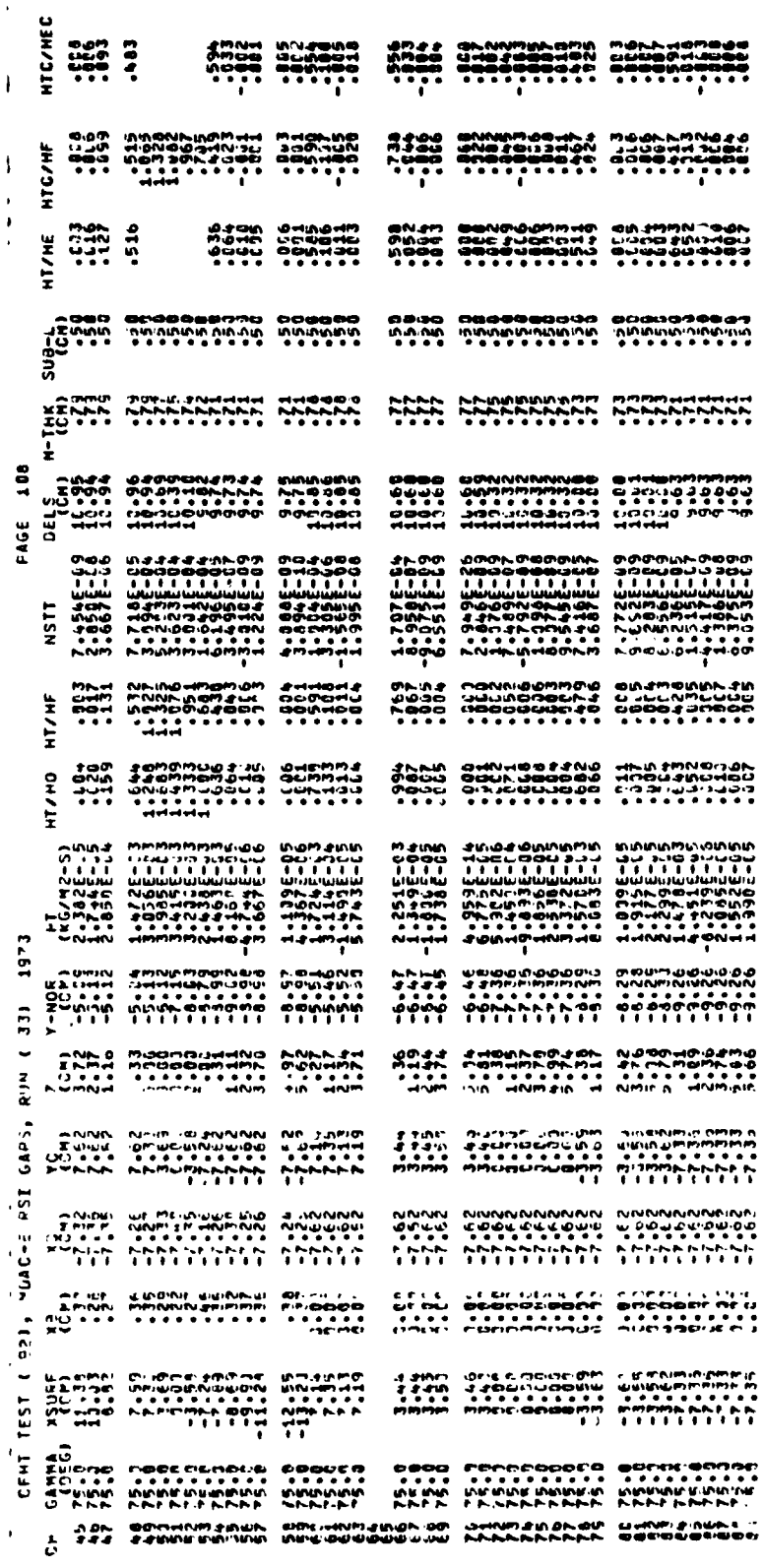
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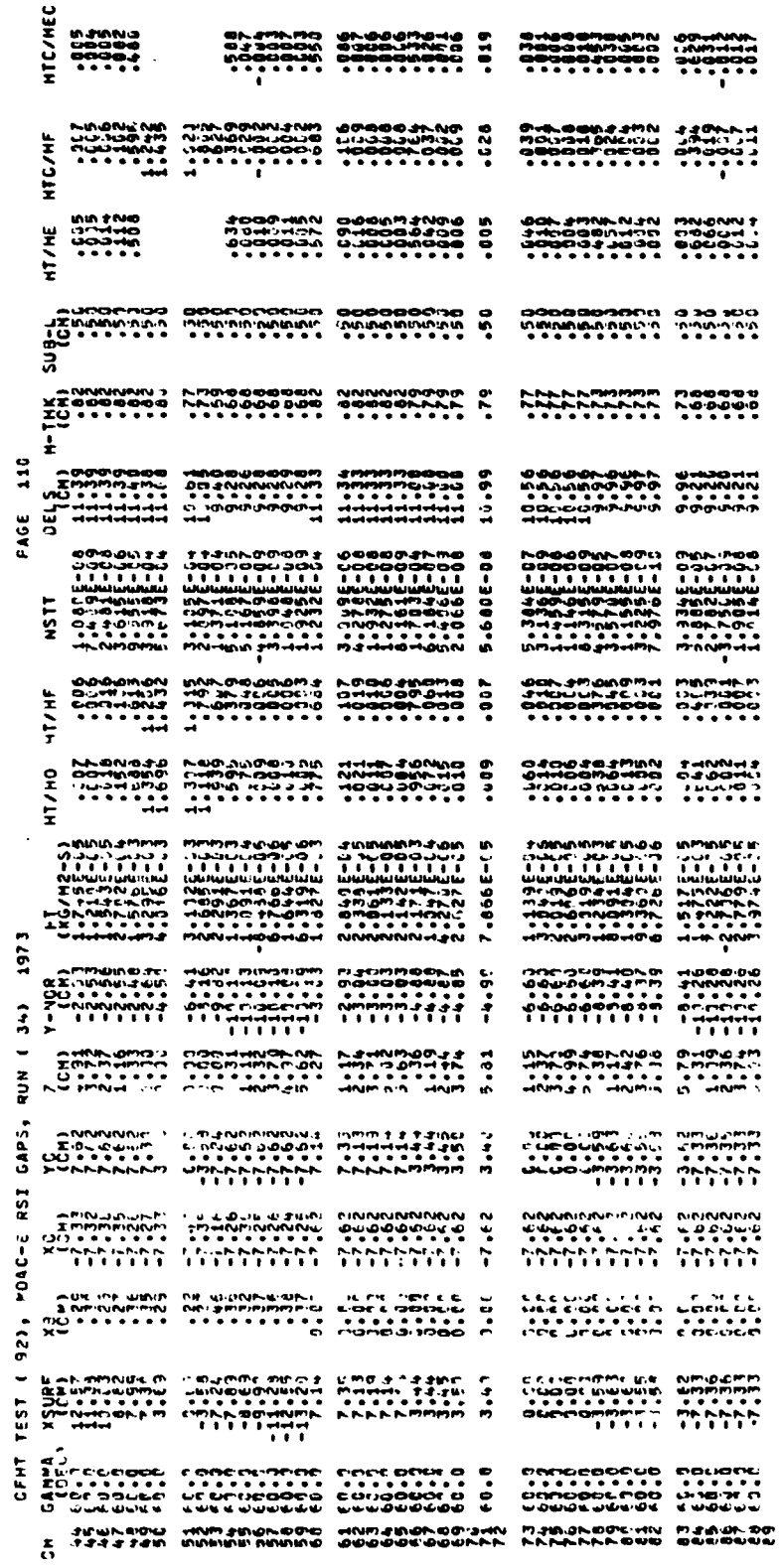
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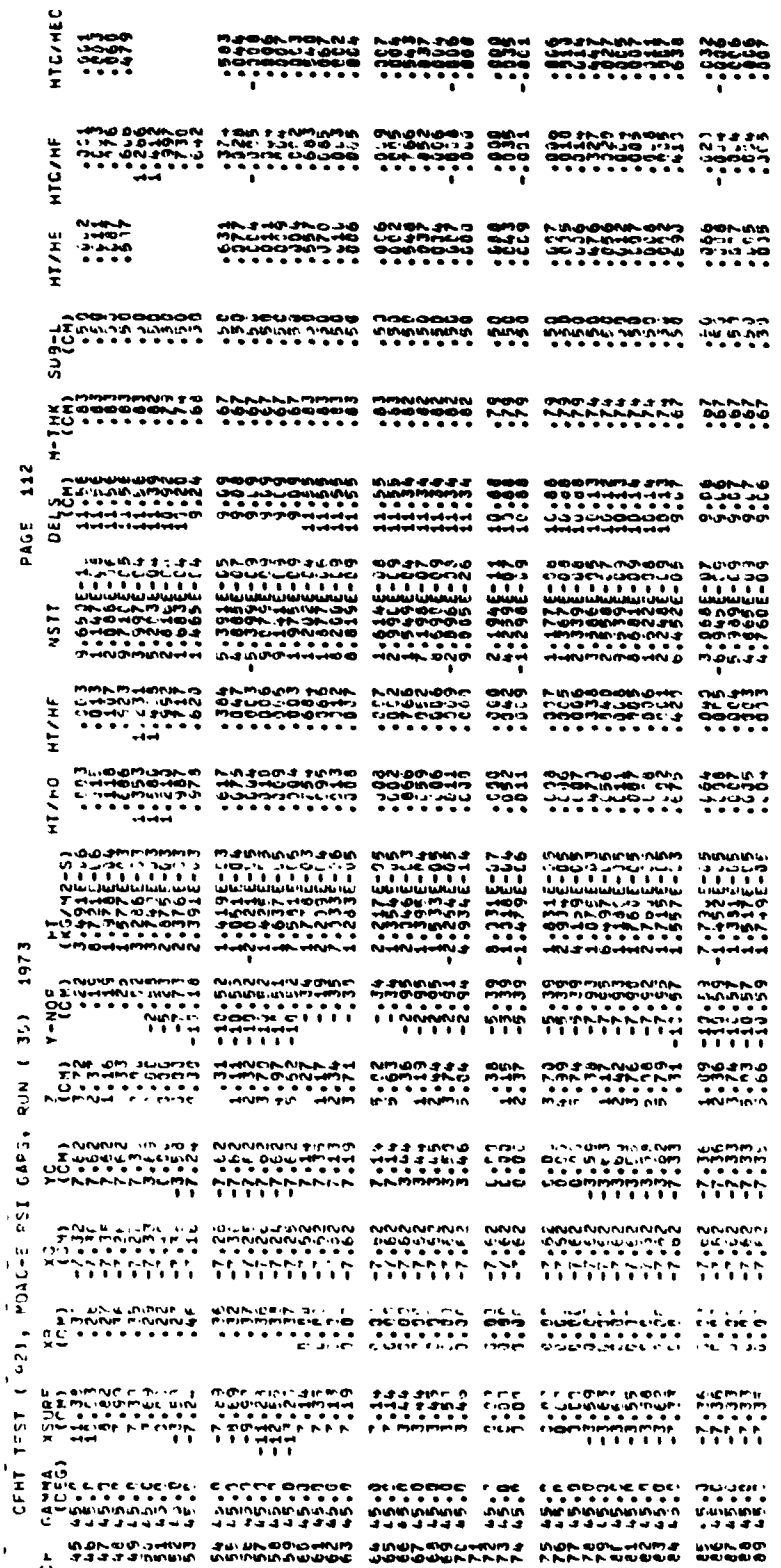


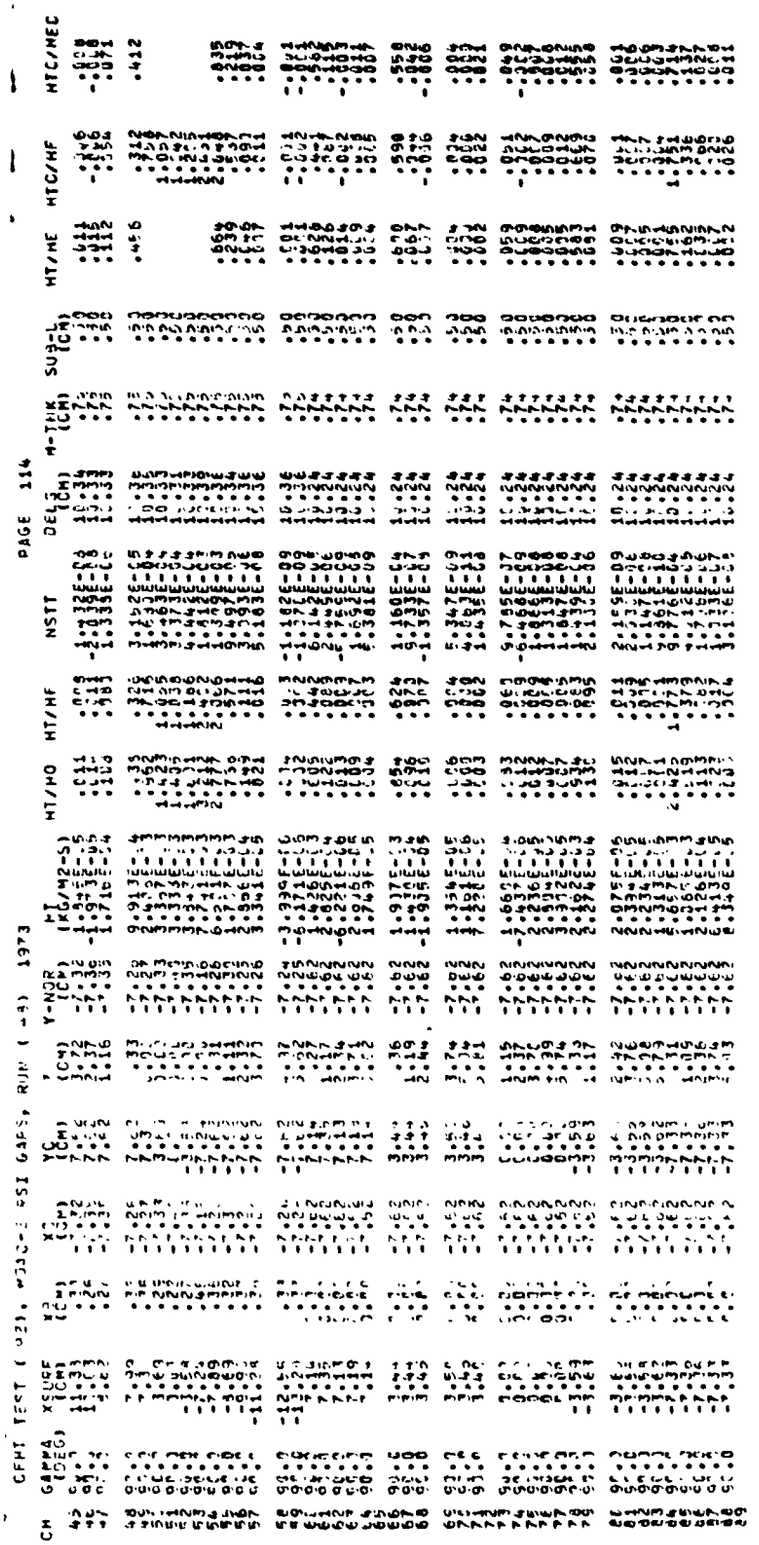
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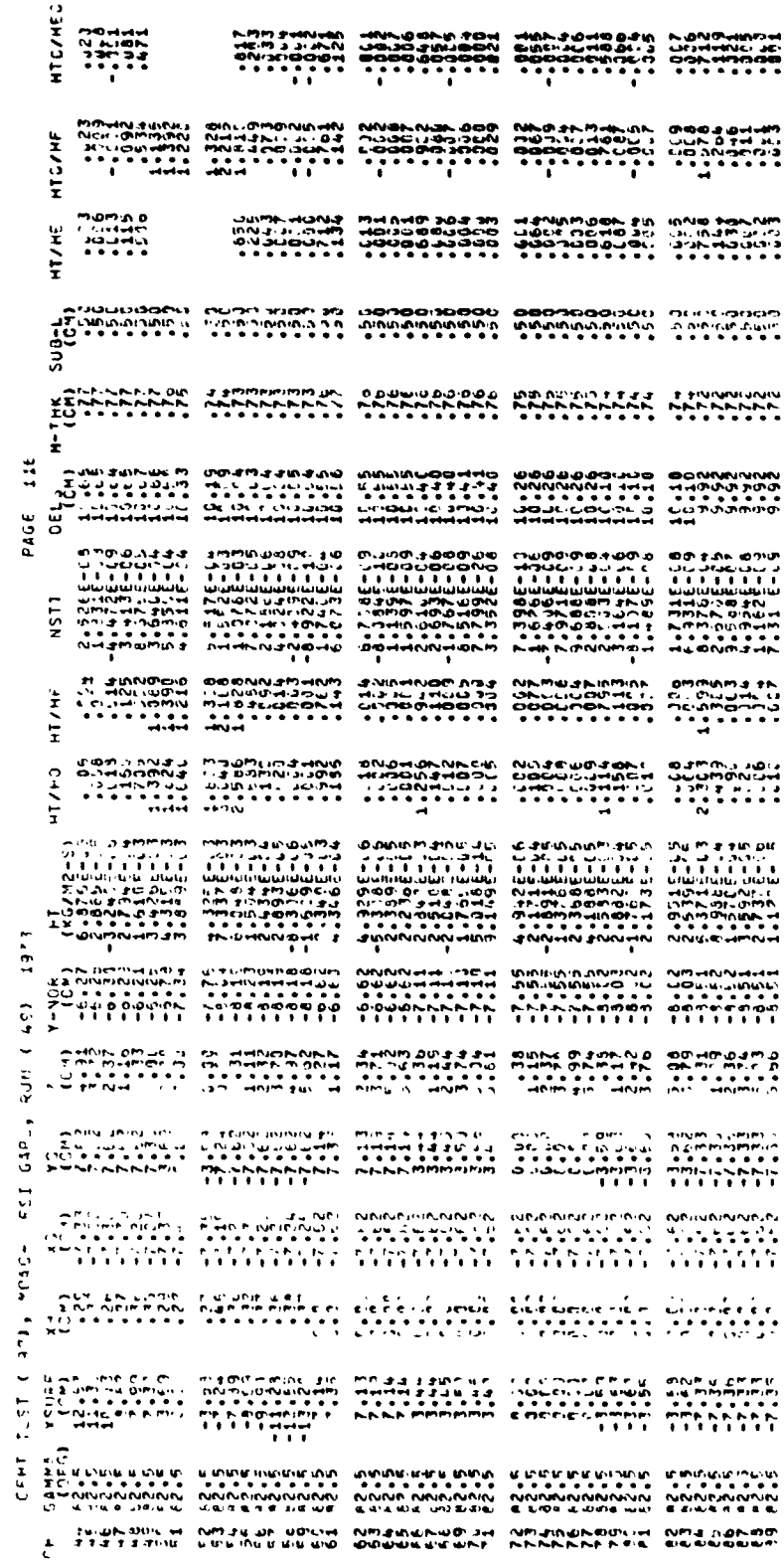


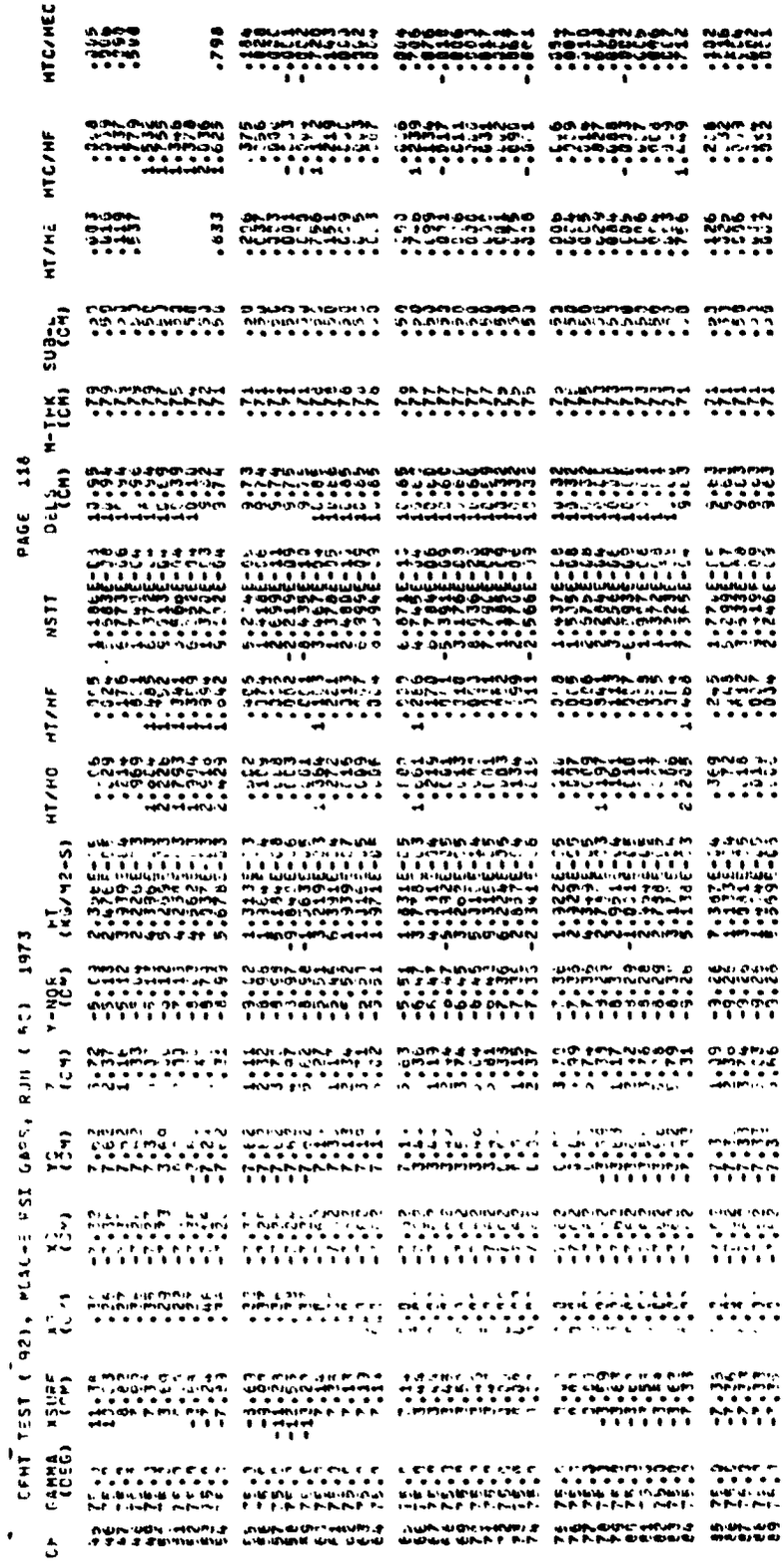
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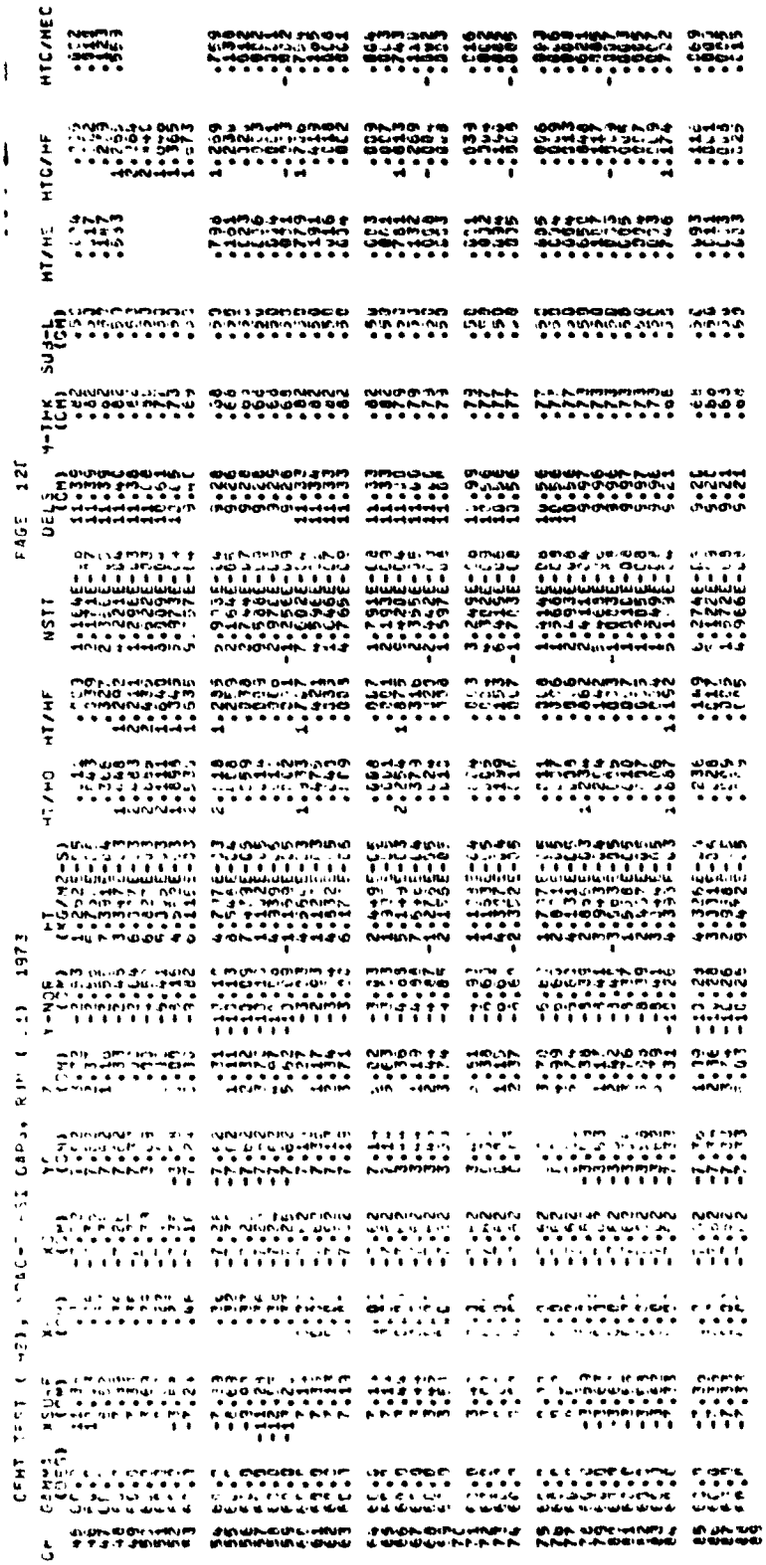
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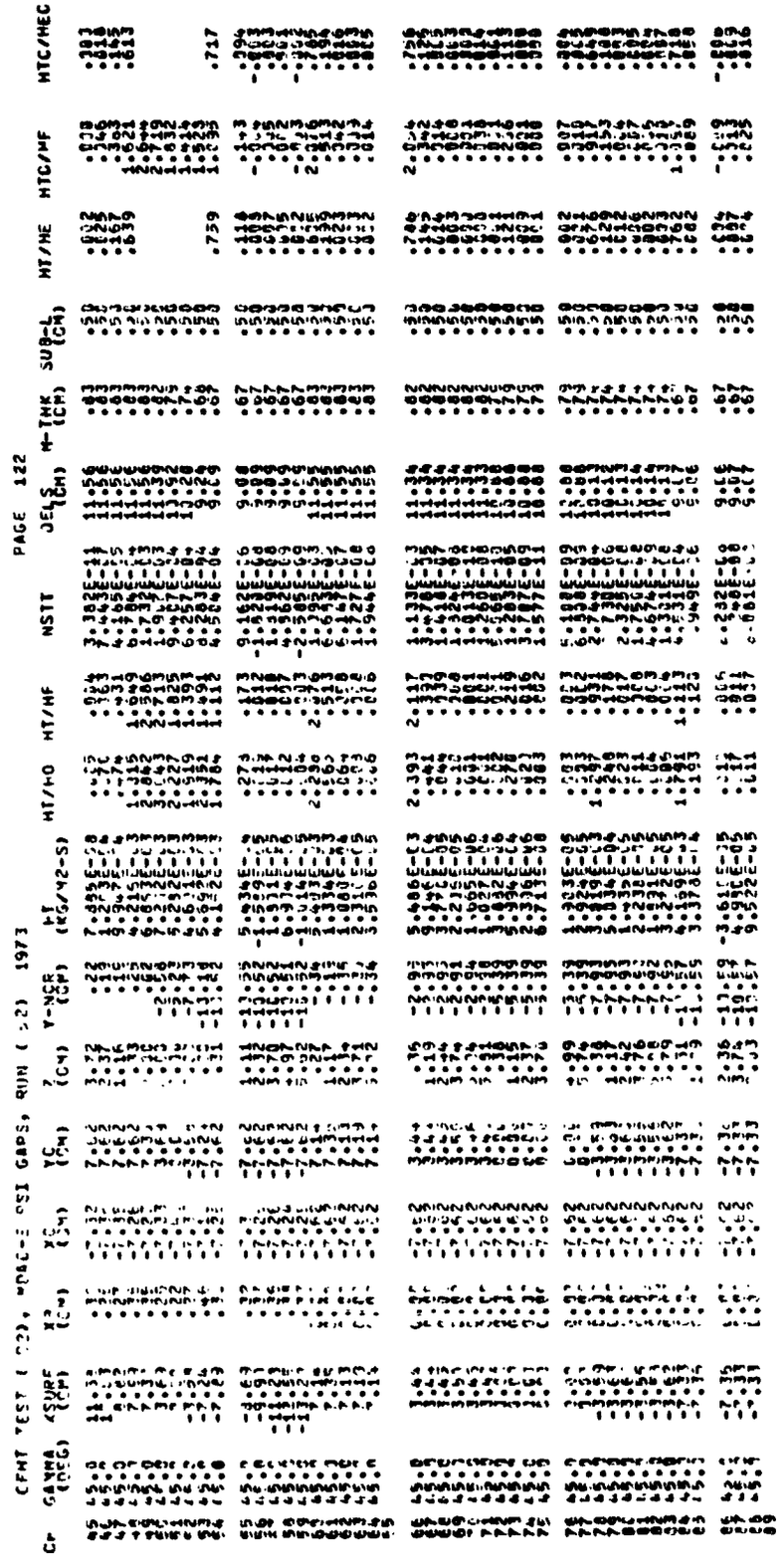




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CFWT TEST (92), MDAC-E RSI GAP>, RUN (66) 1973

SPECIFIC HEAT CORRECTED

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CFHT TEST (32), MDAC-E RSI GAPS, RUN (67) 1973 PAGE 125

MACH = 10.230 TT = 1.011E+03(K)
RX E06 = [illegible] PI = 5.149E+06(N/M2)
RL E06 = 8.111E-02 T1 = [illegible](K)
RE/METER = 3.193E+06 P1 = 9.759E+01(N/M2)
HO = 2.619E+00(N/M2-K) (RHO V)1 = 1.016E+01(KG/M2-S)
TW = 29[illegible] (K) GAP = .127 (CM)
STEP = .254(.M) CONF =STAG

TAW/TT =0.995 FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 OR 90 DEG) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	82.5	13.33	7.62	[illegible]	7.62	3.76	.59	3.045E-06	[illegible]	.005	1.219E-09	11.55	.83	.50	.008	.031	.002
10	82.5	12.72	7.62	[illegible]	7.62	5.03	.59	5.491E-07	.003	.003	1.418E-10	11.55	.83	.50	.005	.000	.000
11																	
12	82.5	10.03	7.62	[illegible]	7.62	2.36	.59	-2.737E-05	.006	.005	-1.364E-08	11.55	.83	.50	.009	-.116	-.018
13	82.5	9.83	7.62	[illegible]	7.62	1.33	.59	[illegible]	.064	.058	3.291E-07	11.55	.83	.50	.103	.222	.139
14	82.5	9.22	7.62	[illegible]	7.62	[illegible]	.59	[illegible]	.268	.242	1.374E-05	11.55	.83	.50	.434	.220	.347
15	82.5	[illegible]	7.62	[illegible]	7.62	[illegible]	.59	[illegible]	.610	.559	8.101E-05	11.55	.83	.50		.567	
16	82.5	[illegible]	7.62	[illegible]	[illegible]	[illegible]	.47	[illegible]	1.192	1.081	3.008E-04	11.56	.83	.50		1.042	
17	82.5	[illegible]	7.62	[illegible]	[illegible]	[illegible]	9.07	[illegible]	1.311	1.193	3.648E-04	11.55	.83	.50		1.193	
18	82.5	-3.54	7.62	[illegible]	-3.54	1.00	-.46	3.483E-03	1.490	1.351	4.640E-04	11.55	.83	.50		1.336	
19	82.5	-7.27	7.62	[illegible]	-7.27	3.92	-.95	5.360E-03	2.302	2.380	1.101E-03	11.53	.83	.50		2.050	
20																	
21	82.5	-8.72	7.62	[illegible]	-7.62	1.17	-.59	2.310E-04	.145	.131	3.769E-06	11.52	.83	.50	.063	-.111	-.054
22	82.5	-9.94	7.62	[illegible]	-7.62	2.39	-.99	-3.815E-05	.132	.011	-5.523E-09	11.52	.83	.50	.001	-.015	-.107
23	82.5	-11.25	7.62	[illegible]	-7.62	[illegible]	-.99	1.581E-05	.033	.003	4.344E-09	11.52	.83	.50	.001	.006	.003
24	82.5	-12.62	7.62	[illegible]	-7.62	3.07	-.93	3.265E-05	.003	.003	9.386E-09	11.52	.83	.50	.001	.012	.006
25	82.5	-13.23	7.62	[illegible]	-7.62	3.73	-.99	3.795E-05	.002	.002	7.386E-09	11.52	.83	.50	.001	.016	.007
26	82.5	13.35	3.86	-3.76	7.62	3.70	-2.74	4.326E-05	.000	.002	4.555E-10	11.37	.82	.50	.000	.016	.022
27	82.5	12.83	3.82	[illegible]	7.62	5.74	-2.78	2.737E-05	.001	.001	1.400E-09	11.36	.82	.50	.011	.010	.014
28																	
29																	
30	82.5	8.81	3.79	-3.87	7.62	1.16	-2.80	4.310E-05	[illegible]	.044	1.872E-07	11.38	.82	.50	.062	.116	.022
31	82.5	.97	3.79	-3.87	7.62	.33	-2.84	8.832E-04	.371	.329	2.666E-05	11.38	.82	.50	.466	.331	.452
32	82.5	7.24	3.83	-3.79	7.24	.00	-2.81	1.954E-03	.796	.706	1.362E-05	11.36	.82	.50		.734	
33	82.5	3.71	[illegible]	-3.92	3.71	1.03	-3.43	2.928E-03	1.237	1.083	3.132E-04	11.27	.81	.50		1.066	
34	82.5	.01	3.67	-3.95	.13	1.30	-3.92	3.031E-03	1.281	1.108	3.315E-04	11.19	.81	.50		1.109	
35	82.5	-3.53	3.73	-3.29	-3.59	[illegible]	-4.32	3.512E-03	1.482	1.263	4.370E-04	11.11	.80	.50		1.204	
36	82.5	-7.25	3.88	-3.74	-7.28	[illegible]	-4.66	5.107E-03	2.125	1.702	8.968E-04	11.04	.83	.50		1.810	
37	82.5	[illegible]	3.83	-3.79	-7.62	.37	-4.75	2.917E-03	1.239	1.036	[illegible]	11.02	.83	[illegible]	.583	1.029	.560
38	82.5	-3.78	3.89	-3.74	-7.62	1.15	-4.70	5.527E-05	.069	.057	3.108E-07	11.03	.80	.50	.032	.020	.011
39																	
40	82.5	-11.23	3.82	[illegible]	-7.62	3.62	-4.76	1.047E-05	.001	.061	2.015E-09	11.62	[illegible]	.50	.001	.037	.004
41	82.5	-12.64	[illegible]	-3.67	-7.62	[illegible]	-4.63	5.938E-05	.001	.011	5.996E-09	11.65	[illegible]	.50	.011	.020	.011
42	82.5	-13.24	[illegible]	-3.62	-7.62	5.68	-4.59	6.780E-05	.033	.002	1.543E-08	11.66	[illegible]	.50	.011	.024	.013
43	82.5	13.37	.27	-7.33	7.62	3.70	-6.29	6.415E-05	.130	[illegible]	1.999E-09	13.65	.77	.30	.024	.021	.021
44	82.5	12.57	.29	-7.33	7.62	4.31	-6.27	4.199E-04	.001	.061	4.434E-09	13.65	.77	.30	.061	.014	.014

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CFMT TEST (921), MDAC-E PSI GAPS, RUN (67) 1973

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CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	YS (CM)	Y (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-TNK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
45	82.5	-8.72	-7.62	7.62	1.72	-6.25	7.961E+06	.632	.044	1.470E-09	11.65	.77	.50	.002	.003	.053
46	82.5	-8.69	-7.62	7.62	1.46	-6.29	7.706E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
47	82.5	-8.69	-7.62	7.62	1.33	-6.29	7.451E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
48	82.5	-8.69	-7.62	7.62	1.20	-6.29	7.196E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
49	82.5	-8.69	-7.62	7.62	1.07	-6.29	6.941E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
50	82.5	-8.69	-7.62	7.62	.94	-6.29	6.686E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
51	82.5	-8.69	-7.62	7.62	.81	-6.29	6.431E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
52	82.5	-8.69	-7.62	7.62	.68	-6.29	6.176E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
53	82.5	-8.69	-7.62	7.62	.55	-6.29	5.921E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
54	82.5	-8.69	-7.62	7.62	.42	-6.29	5.666E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
55	82.5	-8.69	-7.62	7.62	.29	-6.29	5.411E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
56	82.5	-8.69	-7.62	7.62	.16	-6.29	5.156E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
57	82.5	-8.69	-7.62	7.62	.03	-6.29	4.901E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
58	82.5	-8.69	-7.62	7.62	-.10	-6.29	4.646E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
59	82.5	-8.69	-7.62	7.62	-.23	-6.29	4.391E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
60	82.5	-8.69	-7.62	7.62	-.36	-6.29	4.136E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
61	82.5	-8.69	-7.62	7.62	-.49	-6.29	3.881E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
62	82.5	-8.69	-7.62	7.62	-.62	-6.29	3.626E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
63	82.5	-8.69	-7.62	7.62	-.75	-6.29	3.371E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
64	82.5	-8.69	-7.62	7.62	-.88	-6.29	3.116E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
65	82.5	-8.69	-7.62	7.62	-1.01	-6.29	2.861E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
66	82.5	-8.69	-7.62	7.62	-1.14	-6.29	2.606E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
67	82.5	-8.69	-7.62	7.62	-1.27	-6.29	2.351E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
68	82.5	-8.69	-7.62	7.62	-1.40	-6.29	2.096E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
69	82.5	-8.69	-7.62	7.62	-1.53	-6.29	1.841E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
70	82.5	-8.69	-7.62	7.62	-1.66	-6.29	1.586E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
71	82.5	-8.69	-7.62	7.62	-1.79	-6.29	1.331E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
72	82.5	-8.69	-7.62	7.62	-1.92	-6.29	1.076E+06	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
73	82.5	-8.69	-7.62	7.62	-2.05	-6.29	8.211E+05	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
74	82.5	-8.69	-7.62	7.62	-2.18	-6.29	5.663E+05	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
75	82.5	-8.69	-7.62	7.62	-2.31	-6.29	3.116E+05	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
76	82.5	-8.69	-7.62	7.62	-2.44	-6.29	5.686E+04	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
77	82.5	-8.69	-7.62	7.62	-2.57	-6.29	0.257E+00	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
78	82.5	-8.69	-7.62	7.62	-2.70	-6.29	0.257E+00	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
79	82.5	-8.69	-7.62	7.62	-2.83	-6.29	0.257E+00	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
80	82.5	-8.69	-7.62	7.62	-2.96	-6.29	0.257E+00	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
81	82.5	-8.69	-7.62	7.62	-3.09	-6.29	0.257E+00	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
82	82.5	-8.69	-7.62	7.62	-3.22	-6.29	0.257E+00	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
83	82.5	-8.69	-7.62	7.62	-3.35	-6.29	0.257E+00	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
84	82.5	-8.69	-7.62	7.62	-3.48	-6.29	0.257E+00	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
85	82.5	-8.69	-7.62	7.62	-3.61	-6.29	0.257E+00	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
86	82.5	-8.69	-7.62	7.62	-3.74	-6.29	0.257E+00	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
87	82.5	-8.69	-7.62	7.62	-3.87	-6.29	0.257E+00	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
88	82.5	-8.69	-7.62	7.62	-4.00	-6.29	0.257E+00	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053
89	82.5	-8.69	-7.62	7.62	-4.13	-6.29	0.257E+00	.557	.044	1.643E-09	11.65	.77	.50	.002	.003	.053

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CFMT TEST ( ), PDAC-E FFI GAPS, PUN ( ) 1973

CM	GAMMA (DEG)	XSURF (CM)	X2 (CM)	X3 (CM)	YC (CM)	Y (CM)	Y-NOR (CM)	MT (KG/M2-S)	MT/MO	MT/MF	NSTT	DELS (CM)	T-THK (CM)	SUB-L (CM)	MT/ME	HTC/MF	HTC/MEC
45						1.46	-5.42	-1.77	.693	.042	-7.11	10.94	.79	.30	.452	-.626	-.002
46						.33	-5.42	-2.13	.693	.042	-8.53	10.94	.79	.30	.452	.626	.420
47						.36	-5.42	-1.94	.693	.042	-7.77	10.94	.79	.30		.626	
48						.36	-5.42	-1.94	.693	.042	-7.77	10.94	.79	.30		.626	
49						.36	-5.42	-1.94	.693	.042	-7.77	10.94	.79	.30		.626	
50						.36	-5.42	-1.94	.693	.042	-7.77	10.94	.79	.30		.626	
51						.36	-5.42	-1.94	.693	.042	-7.77	10.94	.79	.30		.626	
52						.36	-5.42	-1.94	.693	.042	-7.77	10.94	.79	.30		.626	
53						.36	-5.42	-1.94	.693	.042	-7.77	10.94	.79	.30		.626	
54	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
55	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	1.82E-03	.062	.636	8.99E-07	10.88	.78	.30	.647	.636	.644
56	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
57	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
58	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
59	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
60	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
61	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
62	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
63	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
64	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
65	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
66	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
67	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
68	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
69	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
70	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
71	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
72	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
73	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
74	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
75	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
76	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
77	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
78	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
79	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
80	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
81	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
82	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
83	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
84	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
85	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
86	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
87	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
88	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
89	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670

CM	GAMMA (DEG)	XSURF (CM)	X2 (CM)	X3 (CM)	YC (CM)	Y (CM)	Y-NOR (CM)	MT (KG/M2-S)	MT/MO	MT/MF	NSTT	DELS (CM)	T-THK (CM)	SUB-L (CM)	MT/ME	HTC/MF	HTC/MEC
90	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
91	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
92	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
93	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
94	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
95	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
96	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
97	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
98	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
99	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
100	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
101	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
102	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
103	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
104	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
105	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
106	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
107	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
108	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
109	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
110	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
111	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
112	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
113	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
114	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
115	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
116	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
117	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
118	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
119	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
120	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
121	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
122	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
123	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
124	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
125	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
126	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
127	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
128	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
129	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
130	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
131	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
132	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
133	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
134	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
135	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670
136	75.0	-7.03	-7.62	-7.62	7.17	.27	-5.24	2.03E-03	.069	.714	1.47E-04	10.85	.78	.30	.683	.714	.670

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MACH = 10.290 TI = 1.815E+03(K)
RX EPS = 5.664E-04 PI = 5.118E+03(N/M2)
RL EPS = 1.194E-03 TW = 4.785E+02(K)
RE/METER = 2.197E+07 PW = 9.785E+02(N/M2)
HO = 2.619E+07(W/M2-K) (RHO V)1 = 1.215E+01(KG/M2-S)
TW = 298.8 (K) GAP = .127 (CM)
STEP = .254(CM) CONF =STAG

TAN/TT =5.995 FOR HT/HO TILE COORDINATES(GAMMA=L.E.)
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.=L.E. OR 90 DEG.) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HF

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
60.0	10.65	7.62	3.81	7.62	2.36	3.81	-3.549E-05	.001	.001	-2.583E-09	11.29	.81	.50	.001	-.013	-.001
60.0	10.65	7.62	3.81	7.62	2.36	3.81	-3.549E-05	.001	.001	-2.583E-09	11.29	.81	.50	.001	-.013	-.001
60.0	10.65	7.62	3.81	7.62	2.36	3.81	-3.549E-05	.001	.001	-2.583E-09	11.29	.81	.50	.438	.344	.348
60.0	10.65	7.62	3.81	7.62	2.36	3.81	-3.549E-05	.001	.001	-2.583E-09	11.29	.81	.50			
60.0	8.03	7.62	3.81	8.00	3.00	3.81	2.991E-03	1.265	1.191	3.604E-04	11.58	.83	.50		1.153	
60.0	-3.54	7.62	3.81	-3.54	3.00	-1.77	3.336E-03	1.428	1.282	4.229E-04	11.47	.82	.50		1.294	
60.0	-7.27	7.62	3.81	-7.27	3.00	-3.63	5.247E-03	2.248	1.959	1.516E-03	11.24	.81	.50		1.936	
60.0	-10.72	7.62	3.81	-7.62	1.17	-3.81	2.586E-04	.110	.113	-2.887E-06	11.21	.81	.50	.050	-.005	-.043
60.0	-10.72	7.62	3.81	-7.62	1.17	-3.81	2.586E-04	.110	.113	-2.887E-06	11.21	.81	.50	.050	-.005	-.043
60.0	-10.72	7.62	3.81	-7.62	1.17	-3.81	2.586E-04	.110	.113	-2.887E-06	11.21	.81	.50	.050	-.005	-.043
60.0	-10.72	7.62	3.81	-7.62	5.73	-3.81	3.596E-05	.004	.004	1.297E-08	11.21	.81	.50	.002	.013	.007
60.0	12.65	3.82	-7.62	7.62	5.04	.52	4.214E-05	.001	.001	3.820E-09	11.56	.83	.50	.001	.016	.017
60.0	9.61	3.79	-3.87	7.62	1.16	.49	2.177E-05	.046	.041	8.913E-08	11.56	.83	.50	.044	.008	.009
60.0	9.97	3.79	-3.87	7.62	.33	.46	1.020E-03	.435	.412	4.191E-05	11.56	.83	.50	.441	.369	.411
60.0	7.24	3.87	-3.87	7.24	1.20	.33	2.501E-04	.010	.038	2.311E-04	11.58	.83	.50		.001	
60.0	7.24	3.87	-3.87	7.24	1.20	.33	2.501E-04	.010	.038	2.311E-04	11.58	.83	.50		.001	
60.0	7.24	3.87	-3.87	7.24	1.20	.33	2.501E-04	.010	.038	2.311E-04	11.58	.83	.50		.001	
60.0	10.75	3.88	-7.62	7.62	1.15	-7.05	2.479E-04	.009	.049	1.184E-06	11.42	.76	.50	.048	.032	.078	.073	.051

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CP	GAMMA (DEG)	XSURF (CM)	X3 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
46																	
47	60.3	8.83	.27	-7.75	7.62	1.19	-2.55	5.373E-05	.167	.063	3.107E-07	11.39	.82	.50	.434	.320	.011
48	60.4	7.93	.36	-7.25	7.62	.33	-2.44	2.212E-03	.944	.843	1.942E-04	11.40	.82	.57	.461	.636	.469
49	60.3	7.33	.19	-7.27	7.33	3.00	-2.64	4.767E-03	1.961	1.746	8.226E-04	11.38	.82	.50		1.797	
50	60.0	3.63	.29	-7.33	3.69	3.36	-4.53	3.475E-03	2.681	1.328	1.320E-03	11.68	.86	.58		1.933	
51	60.3	0.01	.22	[illegible]	[illegible]	4.33	-6.41	4.372E-03	1.849	1.437	6.213E-04	10.61	.77	.50		1.439	
52	60.0	-3.53	.27	[illegible]	-3.53	3.96	-8.16	3.912E-03	1.631	1.155	4.467E-04	10.05	.73	.50		1.173	
53	60.3	-7.24	.46	-7.16	-7.24	3.30	-9.62	5.237E-03	2.149	1.389	7.149E-04	9.40	.62	.50		1.424	
54	60.0	-7.63	.36	-7.26	-7.62	.31	-10.13	3.715E-03	1.591	1.012	3.743E-04	9.28	.66	.28	.740	1.009	.764
55	60.3	-8.63	.32	-7.3	-7.62	1.11	-10.13	3.152E-04	.176	.112	3.508E-06	9.26	.68	.50	.482	.605	.863
56																	
57																	
58																	
59																	
60	60.1	7.14	3.07	-7.62	7.14	.27	-3.03	2.973E-03	1.255	1.108	3.258E-04	11.33	.82	.50	.640	1.111	.618
61	60.0	7.35	[illegible]	-7.62	7.33	1.17	-2.93	2.089E-04	.386	.076	1.544E-06	11.34	.82	.50	.044	.377	.043
62																	
63																	
64																	
65																	
66	65.8	3.44	1.03	-7.02	3.44	.36	-4.88	3.278E-03	1.388	1.154	3.741E-04	11.08	.79	.50	.678	1.184	.598
67	60.3	3.44	1.03	-7.02	3.44	1.19	-4.88	1.914E-04	.064	.053	7.984E-07	11.00	.79	.50	.028	.053	.028
68																	
69																	
70																	
71																	
72																	
73	60.9	3.09	3.07	-7.62	6.03	1.15	-6.63	1.445E-04	.062	.048	6.819E-07	14.56	.77	.50	.034	.047	.033
74																	
75																	
76																	
77	66.0	0.09	0.07	-7.62	0.03	5.74	-6.69	-5.385E-05	.100	.060	-1.689E-09	10.58	.77	.50	.103	-.018	-.012
78	60.3	-3.53	3.07	-7.62	-3.53	.38	-8.39	1.990E-03	.047	.892	1.164E-04	9.97	.73	.20	.819	.969	.806
79	60.3	-3.63	3.07	-7.62	-3.63	1.17	-8.41	7.572E-05	.064	.045	3.337E-07	9.96	.73	.50	.039	.022	.019
80																	
81																	
82																	
83																	
84	60.3	-7.33	3.07	-7.62	-7.33	.31	-10.26	3.535E-03	1.527	.964	3.429E-04	9.21	.68	.50	.719	.961	.675
85	60.0	-7.36	[illegible]	-7.62	-7.36	1.39	-10.23	1.926E-04	.127	.080	1.521E-06	9.28	.68	.50	.059	.081	.056
86																	
87	60.1	-7.33	3.07	-7.62	-7.33	3.74	-10.26	9.593E-06	.001	.001	6.098E-10	9.21	.68	.50	.003	.003	.002
88																	
89																	

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CFMT TEST (62), MDAC-E RSI GAPS, RUN (72) 1973

MACH = 10.29
RN E06 = 5.32E-01
RE/FEET = 6.12E+06
HO = 2.11E+08 (W/M2-K)
TW = 2.89E+02 (K)
STEP = .254 (CM)

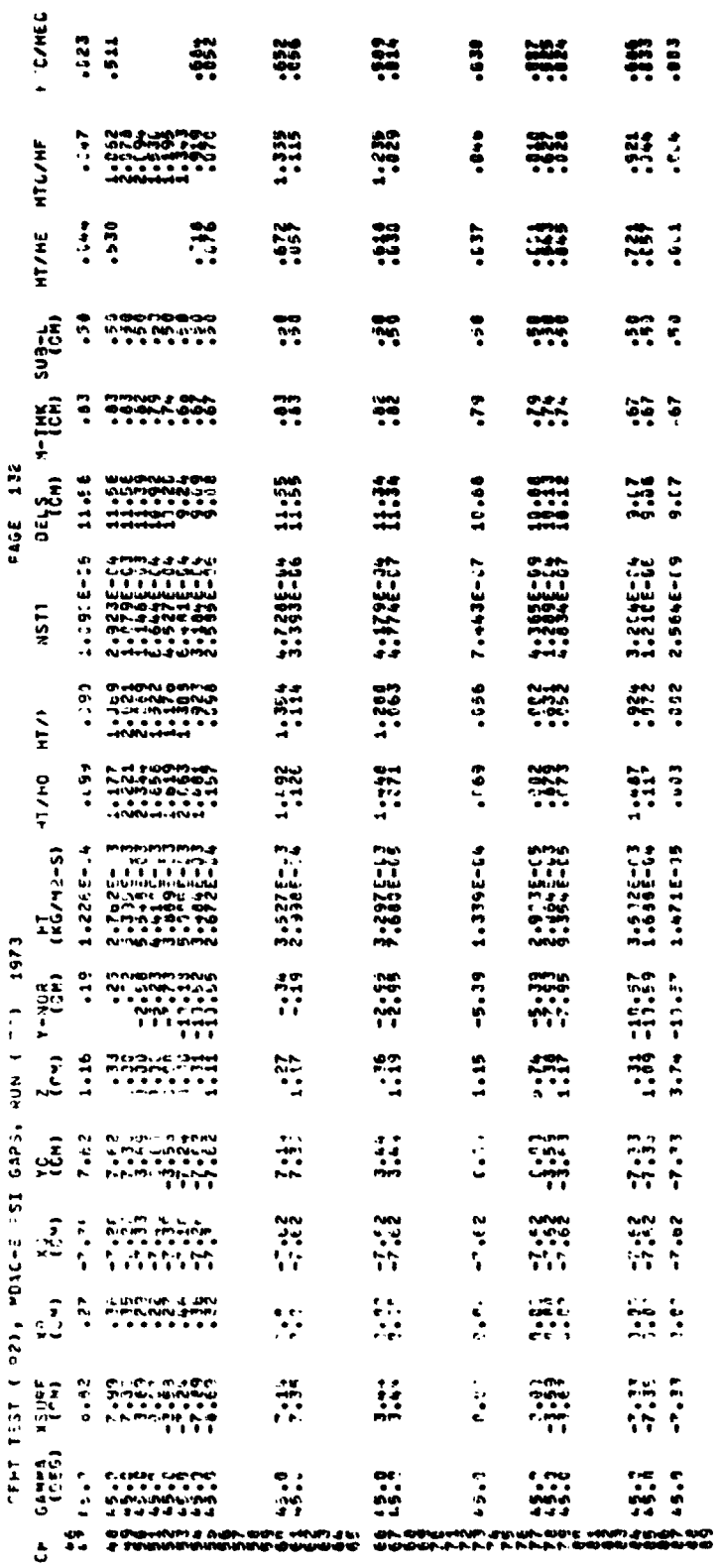
II = 5.11E+03(K)
QI = 1.18E+03(N/M2)
TI = 4.77E+01(K)
PI = 9.77E-01(N/M2)
RHO VII = 1.21E+01(KG/M2-S)
GAP = .25 (CM)
CONF =STAG

TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE LEADING EDGE
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

TAW/TT =0.896 FCR HT/HO
XSURF =SURFACE DISTANCE
(FLOW ORIENTED)
HT/HE, GAP HEATING RATIO TO FLAT PLATE
HTC/HF, GAP HEATING CORRECTED FOR EDGE AT TILE TOP
HTC/HEC, CONDUCTION CORRECTED HT/HE

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	PT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-TNK (CM)	SUB-L (CM)	HT/HE	HTG/HF	HTG/HEC
1	90.000	11.352	7.62	7.62	7.62	2.36	5.39	-2.61E-05	.483	.483	-6.49E-07	11.08	.80	.350	.802	-.882	-.813
2	90.000	8.052	7.62	7.62	7.62	1.33	5.39	8.81E-06	.554	.555	1.46E-05	11.08	.80	.350	.859	-.888	-.814
3	90.000	7.252	7.62	7.62	7.62	.53	5.39	4.81E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
4	90.000	7.052	7.62	7.62	7.62	.33	5.39	3.61E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
5	90.000	6.952	7.62	7.62	7.62	.23	5.39	3.01E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
6	90.000	6.852	7.62	7.62	7.62	.13	5.39	2.41E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
7	90.000	6.752	7.62	7.62	7.62	.03	5.39	1.81E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
8	90.000	6.652	7.62	7.62	7.62	-.07	5.39	1.20E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
9	90.000	6.552	7.62	7.62	7.62	-.17	5.39	6.02E-07	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
10	90.000	6.452	7.62	7.62	7.62	-.27	5.39	0.00E+00	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
11	90.000	6.352	7.62	7.62	7.62	-.37	5.39	-6.02E-07	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
12	90.000	6.252	7.62	7.62	7.62	-.47	5.39	-1.20E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
13	90.000	6.152	7.62	7.62	7.62	-.57	5.39	-1.81E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
14	90.000	6.052	7.62	7.62	7.62	-.67	5.39	-2.41E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
15	90.000	5.952	7.62	7.62	7.62	-.77	5.39	-3.01E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
16	90.000	5.852	7.62	7.62	7.62	-.87	5.39	-3.61E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
17	90.000	5.752	7.62	7.62	7.62	-.97	5.39	-4.21E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
18	90.000	5.652	7.62	7.62	7.62	-1.07	5.39	-4.81E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
19	90.000	5.552	7.62	7.62	7.62	-1.17	5.39	-5.41E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
20	90.000	5.452	7.62	7.62	7.62	-1.27	5.39	-6.02E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
21	90.000	5.352	7.62	7.62	7.62	-1.37	5.39	-6.62E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
22	90.000	5.252	7.62	7.62	7.62	-1.47	5.39	-7.22E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
23	90.000	5.152	7.62	7.62	7.62	-1.57	5.39	-7.82E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
24	90.000	5.052	7.62	7.62	7.62	-1.67	5.39	-8.42E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
25	90.000	4.952	7.62	7.62	7.62	-1.77	5.39	-9.02E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
26	90.000	4.852	7.62	7.62	7.62	-1.87	5.39	-9.62E-06	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
27	90.000	4.752	7.62	7.62	7.62	-1.97	5.39	-1.02E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
28	90.000	4.652	7.62	7.62	7.62	-2.07	5.39	-1.08E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
29	90.000	4.552	7.62	7.62	7.62	-2.17	5.39	-1.14E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
30	90.000	4.452	7.62	7.62	7.62	-2.27	5.39	-1.20E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
31	90.000	4.352	7.62	7.62	7.62	-2.37	5.39	-1.26E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
32	90.000	4.252	7.62	7.62	7.62	-2.47	5.39	-1.32E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
33	90.000	4.152	7.62	7.62	7.62	-2.57	5.39	-1.38E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
34	90.000	4.052	7.62	7.62	7.62	-2.67	5.39	-1.44E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
35	90.000	3.952	7.62	7.62	7.62	-2.77	5.39	-1.50E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
36	90.000	3.852	7.62	7.62	7.62	-2.87	5.39	-1.56E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
37	90.000	3.752	7.62	7.62	7.62	-2.97	5.39	-1.62E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
38	90.000	3.652	7.62	7.62	7.62	-3.07	5.39	-1.68E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
39	90.000	3.552	7.62	7.62	7.62	-3.17	5.39	-1.74E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
40	90.000	3.452	7.62	7.62	7.62	-3.27	5.39	-1.80E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
41	90.000	3.352	7.62	7.62	7.62	-3.37	5.39	-1.86E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
42	90.000	3.252	7.62	7.62	7.62	-3.47	5.39	-1.92E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
43	90.000	3.152	7.62	7.62	7.62	-3.57	5.39	-1.98E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
44	90.000	3.052	7.62	7.62	7.62	-3.67	5.39	-2.04E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
45	90.000	2.952	7.62	7.62	7.62	-3.77	5.39	-2.10E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
46	90.000	2.852	7.62	7.62	7.62	-3.87	5.39	-2.16E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
47	90.000	2.752	7.62	7.62	7.62	-3.97	5.39	-2.22E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
48	90.000	2.652	7.62	7.62	7.62	-4.07	5.39	-2.28E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
49	90.000	2.552	7.62	7.62	7.62	-4.17	5.39	-2.34E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
50	90.000	2.452	7.62	7.62	7.62	-4.27	5.39	-2.40E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
51	90.000	2.352	7.62	7.62	7.62	-4.37	5.39	-2.46E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
52	90.000	2.252	7.62	7.62	7.62	-4.47	5.39	-2.52E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
53	90.000	2.152	7.62	7.62	7.62	-4.57	5.39	-2.58E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
54	90.000	2.052	7.62	7.62	7.62	-4.67	5.39	-2.64E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
55	90.000	1.952	7.62	7.62	7.62	-4.77	5.39	-2.70E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
56	90.000	1.852	7.62	7.62	7.62	-4.87	5.39	-2.76E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
57	90.000	1.752	7.62	7.62	7.62	-4.97	5.39	-2.82E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
58	90.000	1.652	7.62	7.62	7.62	-5.07	5.39	-2.88E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
59	90.000	1.552	7.62	7.62	7.62	-5.17	5.39	-2.94E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
60	90.000	1.452	7.62	7.62	7.62	-5.27	5.39	-3.00E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
61	90.000	1.352	7.62	7.62	7.62	-5.37	5.39	-3.06E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
62	90.000	1.252	7.62	7.62	7.62	-5.47	5.39	-3.12E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
63	90.000	1.152	7.62	7.62	7.62	-5.57	5.39	-3.18E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
64	90.000	1.052	7.62	7.62	7.62	-5.67	5.39	-3.24E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
65	90.000	.952	7.62	7.62	7.62	-5.77	5.39	-3.30E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
66	90.000	.852	7.62	7.62	7.62	-5.87	5.39	-3.36E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
67	90.000	.752	7.62	7.62	7.62	-5.97	5.39	-3.42E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
68	90.000	.652	7.62	7.62	7.62	-6.07	5.39	-3.48E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
69	90.000	.552	7.62	7.62	7.62	-6.17	5.39	-3.54E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
70	90.000	.452	7.62	7.62	7.62	-6.27	5.39	-3.60E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
71	90.000	.352	7.62	7.62	7.62	-6.37	5.39	-3.66E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
72	90.000	.252	7.62	7.62	7.62	-6.47	5.39	-3.72E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
73	90.000	.152	7.62	7.62	7.62	-6.57	5.39	-3.78E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
74	90.000	.052	7.62	7.62	7.62	-6.67	5.39	-3.84E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
75	90.000	-.048	7.62	7.62	7.62	-6.77	5.39	-3.90E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
76	90.000	-.148	7.62	7.62	7.62	-6.87	5.39	-3.96E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
77	90.000	-.248	7.62	7.62	7.62	-6.97	5.39	-4.02E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
78	90.000	-.348	7.62	7.62	7.62	-7.07	5.39	-4.08E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
79	90.000	-.448	7.62	7.62	7.62	-7.17	5.39	-4.14E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
80	90.000	-.548	7.62	7.62	7.62	-7.27	5.39	-4.20E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
81	90.000	-.648	7.62	7.62	7.62	-7.37	5.39	-4.26E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
82	90.000	-.748	7.62	7.62	7.62	-7.47	5.39	-4.32E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
83	90.000	-.848	7.62	7.62	7.62	-7.57	5.39	-4.38E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
84	90.000	-.948	7.62	7.62	7.62	-7.67	5.39	-4.44E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
85	90.000	-1.048	7.62	7.62	7.62	-7.77	5.39	-4.50E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
86	90.000	-1.148	7.62	7.62	7.62	-7.87	5.39	-4.56E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
87	90.000	-1.248	7.62	7.62	7.62	-7.97	5.39	-4.62E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
88	90.000	-1.348	7.62	7.62	7.62	-8.07	5.39	-4.68E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
89	90.000	-1.448	7.62	7.62	7.62	-8.17	5.39	-4.74E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
90	90.000	-1.548	7.62	7.62	7.62	-8.27	5.39	-4.80E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
91	90.000	-1.648	7.62	7.62	7.62	-8.37	5.39	-4.86E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
92	90.000	-1.748	7.62	7.62	7.62	-8.47	5.39	-4.92E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
93	90.000	-1.848	7.62	7.62	7.62	-8.57	5.39	-4.98E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
94	90.000	-1.948	7.62	7.62	7.62	-8.67	5.39	-5.04E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
95	90.000	-2.048	7.62	7.62	7.62	-8.77	5.39	-5.10E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
96	90.000	-2.148	7.62	7.62	7.62	-8.87	5.39	-5.16E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
97	90.000	-2.248	7.62	7.62	7.62	-8.97	5.39	-5.22E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
98	90.000	-2.348	7.62	7.62	7.62	-9.07	5.39	-5.28E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
99	90.000	-2.448	7.62	7.62	7.62	-9.17	5.39	-5.34E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
100	90.000	-2.548	7.62	7.62	7.62	-9.27	5.39	-5.40E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
101	90.000	-2.648	7.62	7.62	7.62	-9.37	5.39	-5.46E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
102	90.000	-2.748	7.62	7.62	7.62	-9.47	5.39	-5.52E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
103	90.000	-2.848	7.62	7.62	7.62	-9.57	5.39	-5.58E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
104	90.000	-2.948	7.62	7.62	7.62	-9.67	5.39	-5.64E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
105	90.000	-3.048	7.62	7.62	7.62	-9.77	5.39	-5.70E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
106	90.000	-3.148	7.62	7.62	7.62	-9.87	5.39	-5.76E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
107	90.000	-3.248	7.62	7.62	7.62	-9.97	5.39	-5.82E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
108	90.000	-3.348	7.62	7.62	7.62	-10.07	5.39	-5.88E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
109	90.000	-3.448	7.62	7.62	7.62	-10.17	5.39	-5.94E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
110	90.000	-3.548	7.62	7.62	7.62	-10.27	5.39	-6.00E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
111	90.000	-3.648	7.62	7.62	7.62	-10.37	5.39	-6.06E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
112	90.000	-3.748	7.62	7.62	7.62	-10.47	5.39	-6.12E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
113	90.000	-3.848	7.62	7.62	7.62	-10.57	5.39	-6.18E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
114	90.000	-3.948	7.62	7.62	7.62	-10.67	5.39	-6.24E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814
115	90.000	-4.048	7.62	7.62	7.62	-10.77	5.39	-6.30E-05	.562	.562	2.41E-05	11.08	.80	.350	.859	-.888	-.814



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CFMT TEST (92), MDAC-E RSI GAPS, RUN (9:1) 1973

SPECIFIC HEAT CORRECTED

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/MEC
1	93.0	13.33	7.62	7.62	7.62	5.70	0.0	1.066E-04	.386	.305	5.285E-08	11.56	.83	.50	.859	.841	.873

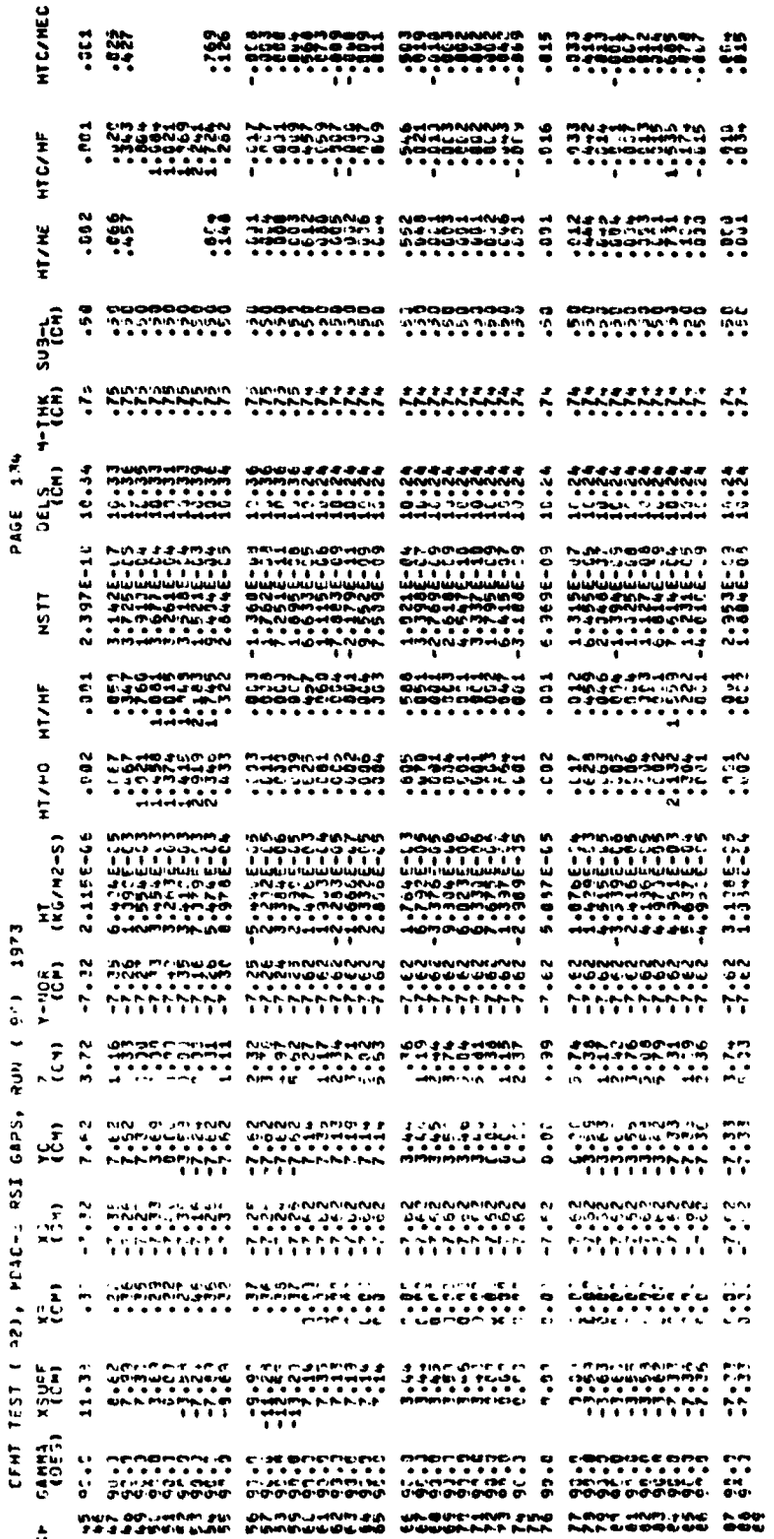
TAN/TT =0.895 FCR HT/HO
XSURF =SURFACE DISTANCE (FLOW ORIENTATION)
HT/HE, GAP HEATING (CONDUCTION CORRECTED HT/HE
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/MEC, CONDUCTION CORRECTED HTC/MEC

TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE LEADING EDGE
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

CFMT TEST (92), MDAC-E RSI GAPS, RUN (9:1) 1973

MACH = 10.223E+00 TT = 5.611E+03(K)
RN E06 = 1.539E-01 PT = 9.174E+01(N/M2)
RE/METER = 3.116E+06 PINF = 9.802E-01(N/M2)
HO = 2.893E+07(J/KG) RHO V11 = 1.929 (KG/M2-S)
TW = 294.444(K) CONF =STAG
STEP = .254(CM)

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/MEC
1	93.0	13.33	7.62	7.62	7.62	5.70	0.0	1.066E-04	.386	.305	5.285E-08	11.56	.83	.50	.859	.841	.873



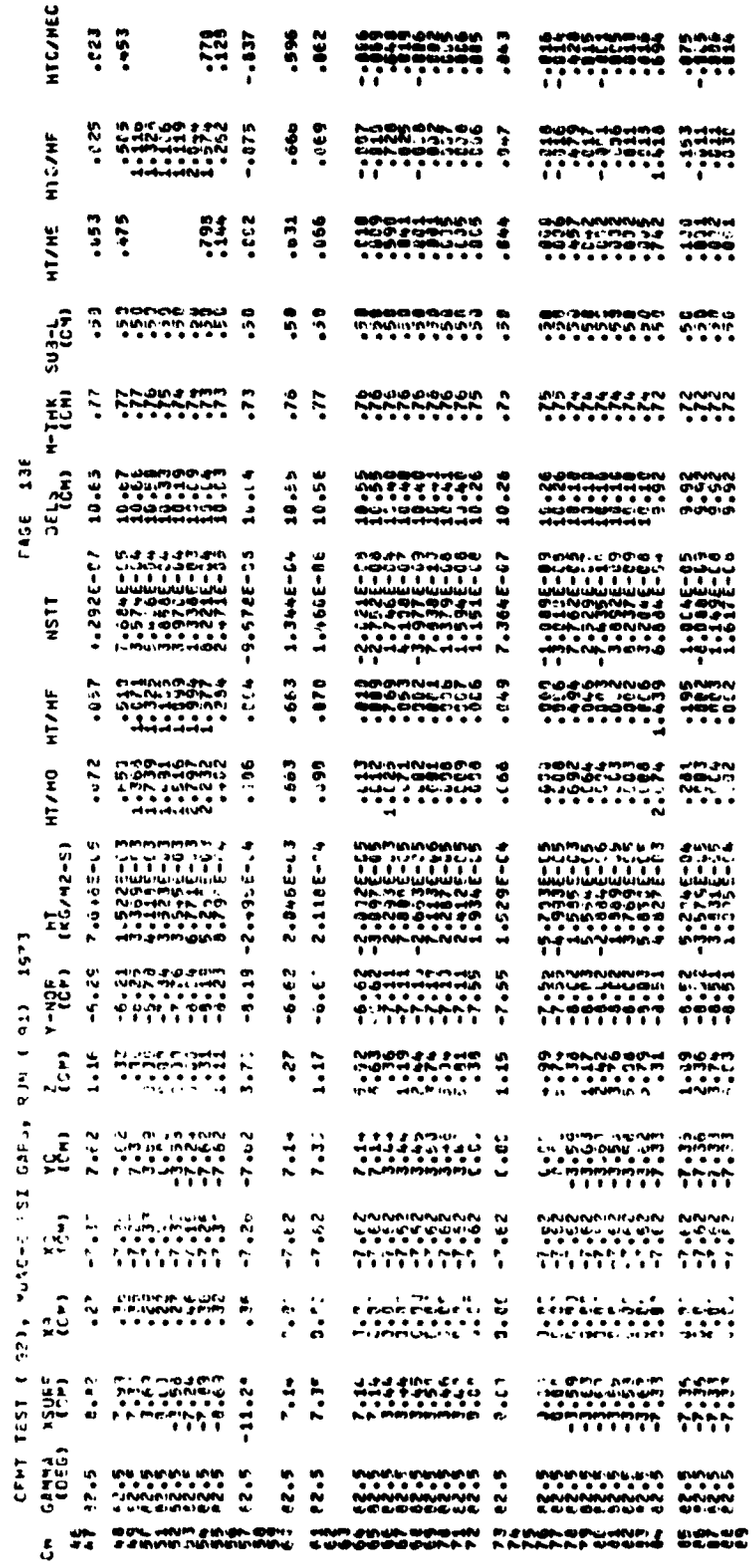
CFHT TEST (92), PDAC-E RSI GAPS, RUN (91) 1973 PAGE 135

MACH = 10.298 TI = 1.923E+03(K)
RX ERR = 5.553E-11 PI = 5.417E+06(N/M2)
RL ERR = 7.959E-12 T1 = 4.953E+01(K)
RE/METER = 3.913E+06 P1 = 9.734E+00(N/M2)
HO = 2.419E+07(M/M2-K) (RHO V)1 = 1.114E+01(KG/M2-S)
TW = 293.6 (K) GAP = .229 (CM)
STEP = .254(CM) CONF =STAG

TAN/TT =0.39F FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE X9 = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(=0 OR 90 DEG.) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CR	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	N-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
0	82.5	13.39	7.62	0.00	7.6	5.79	.99	-1.835E-04	.003	.003	-4.842E-08	11.95	.83	.58	.005	-.078	-.123
1																	
2																	
3																	
4	82.5	8.83	7.62	0.00	7.62	1.14	.69	1.536E-04	.070	.363	9.456E-07	11.58	.83	.58	.113	.058	.101
5																	
6																	
7																	
8																	
9																	
10	82.5	-7.12	7.62	0.00	-7.27	1.80	-.99	9.829E-03	2.584	2.262	1.357E-03	11.53	.83	.58			
11																	
12	82.5	-7.62	7.62	0.00	-7.62	.41	-.59	7.207E-06	.003	.003	1.260E-09	11.52	.83	.58	.001	-.001	-.001
13																	
14	82.5	-11.25	7.62	0.00	-7.62	3.70	-.99	-1.665E-04	.007	.006	-9.715E-08	11.52	.83	.58	.005	-.004	-.029
15																	
16																	
17																	
18	82.5	12.68	3.42	-3.81	7.62	5.34	-2.78	9.796E-05	.037	.006	5.630E-08	11.36	.82	.58	.008	-.037	-.058
19																	
20																	
21																	
22	82.5	7.24	3.84	-3.81	7.24	1.80	-2.81	1.979E-03	.802	.712	1.396E-04	11.31	.82	.58	.410	.743	.368
23																	
24	82.5	3.74	3.75	-3.82	3.71	1.80	-3.41	2.963E-03	1.254	1.098	3.232E-04	11.27	.81	.57		1.101	
25																	
26																	
27																	
28	82.5	-7.62	3.81	-3.81	-7.62	1.15	-4.70	3.149E-04	.146	.122	3.807E-06	11.03	.80	.58	.063	.112	.057
29																	
30	82.5	-12.64	3.85	-3.67	-7.62	5.04	-4.63	-7.932E-05	.014	.011	-8.957E-08	11.65	.85	.58	.006	-.028	-.014
31	82.5	13.37	.27	-7.35	7.62	3.70	-6.29	1.818E-04	.008	.006	6.344E-08	10.65	.77	.58	.006	.034	.030
32	82.5	11.34	.30	-7.32	7.62	3.72	-6.26	5.534E-06	.000	.000	4.935E-11	10.65	.77	.58	.000	.002	.002



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OF POOR QUALITY

CFHT TEST (92). MDAC-E PSI GAPS, RUN (92) 1973 PAGE 137

MACH = 10.293 TI = 1.223E+03(K)
RE EDGE = 4.939E+05 PI = 5.171E+06(N/M2)
RE EDGE = 8.898E+06 TW = 4.855E+01(K)
RE/METER = 3.810E+06 PW = 9.783E+01(N/M2)
HO = 2.619E+07(N/M2-K) (RHO V)1 = 1.318E+01(KG/M2-S)
TW =555.7 (K) GAP = .229 (CM)
STEP = .254(CM) CONF =STAG

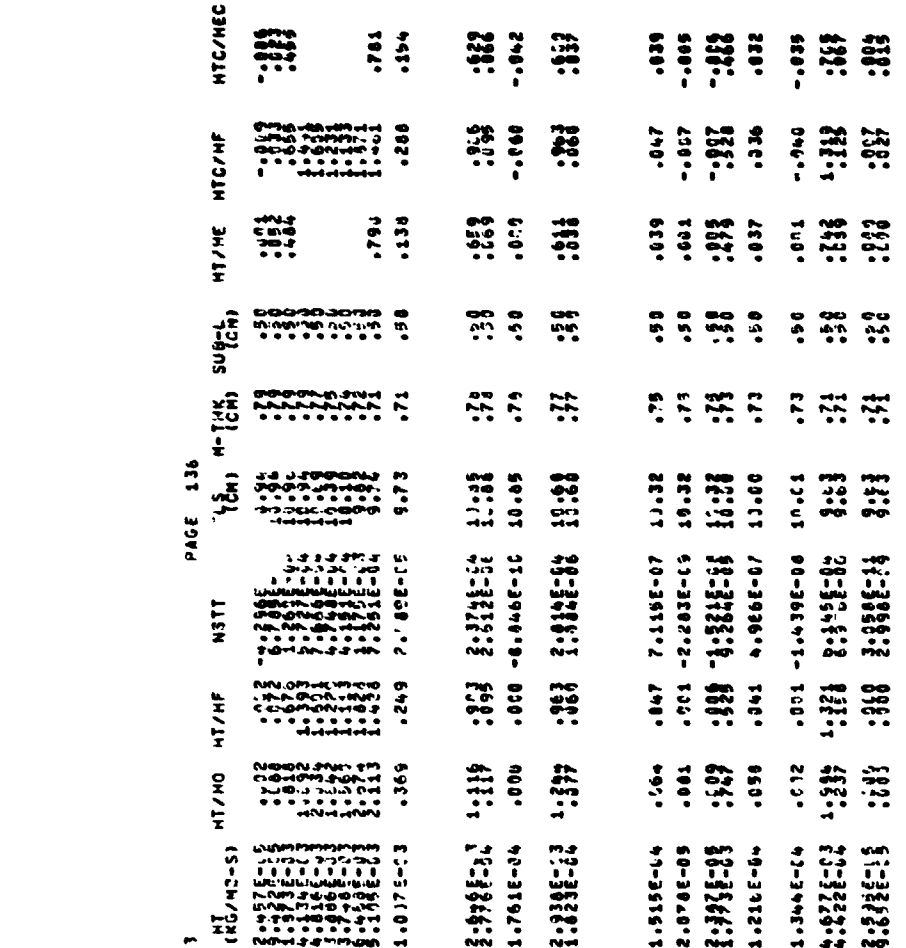
TAW/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (=0 OR =180 DEG.)

TILE COORDINATES(GAMMA=8.4
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HF, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
	75.8	12.72	7.62	[illegible]	7.62	5.13	1.97	1.328E-04	.010	.009	9.107E-08	11.50	.82	.50	.016	.039	.060
	75.8	[illegible]	7.62	[illegible]	7.62	3.74	1.97	-1.611E-05	.004	.003	-1.104E-09	11.50	.82	.50	.006	-.001	-.002
	75.8	[illegible]	7.62	[illegible]	7.62	2.36	1.97	-1.955E-05	.002	.002	-5.610E-09	11.50	.82	.50	.005	-.001	-.002
	75.8	[illegible]	7.62	[illegible]	7.62	1.14	1.97	7.822E-05	.864	.857	1.881E-07	11.50	.82	.50	.138	.327	.504
	75.8	[illegible]	7.62	[illegible]	7.62	.43	1.97	4.908E-04	.231	.287	1.826E-06	11.50	.82	.50	.362	.859	.328
	75.8	7.26	7.62	[illegible]	7.62	.00	1.89	1.518E-03	.637	.572	8.632E-06	11.50	.82	.50		.577	
	75.8	3.63	7.62	[illegible]	3.63	[illegible]	.94	2.884E-03	1.219	1.181	3.157E-04	11.45	.82	.50		[illegible]	
	75.8	[illegible]	7.62	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	
	75.8	[illegible]	7.62	[illegible]	-3.64	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	
	75.8	-7.27	7.62	[illegible]	-7.27	[illegible]	-1.88	6.157E-03	2.648	2.375	1.452E-03	11.[illegible]	.82	.50		[illegible]	
	75.3	-8.72	7.62	[illegible]	-7.62	1.17	-1.97	7.898E-04	.304	.272	1.928E-05	11.45	.82	.50	.115	.269	.115
	75.8	[illegible]	7.62	[illegible]	-7.62	3.78	-1.97	2.188E-05	.001	.001	2.554E-09	11.45	.82	.50	.000	.000	.000
	75.8	[illegible]	7.62	[illegible]	-7.62	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	75.8	[illegible]	7.62	[illegible]	-7.62	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	75.8	.35	7.62	-3.76	7.62	5.73	-1.66	-1.724E-04	.001	.001	-1.776E-08	11.48	.82	.50	.001	-.000	-.001
	75.3	8.81	3.79	-7.83	7.62	1.16	-1.73	1.181E-04	.055	.050	5.824E-07	11.47	.82	.50	.063	.045	.055
	75.8	7.97	3.75	-3.87	7.62	[illegible]	-1.76	8.332E-04	.345	.313	2.560E-05	11.47	.82	.50	.397	.317	.390
	75.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	
	75.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	
	75.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	
	75.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	75.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	75.8	-8.95	[illegible]	-3.87	-7.62	1.15	-1.64	-2.522E-04	.081	.080	-1.280E-08	10.82	.78	.50	.008	-.006	-.046
	75.8	-13.28	[illegible]	-3.62	-7.62	3.68	-5.47	-9.191E-05	.031	.031	-9.569E-09	10.86	.78	.50	.001	-.732	-.017
44	75.8	12.97	[illegible]	-7.33	7.62	[illegible]	-5.13	1.464E-04	.000	.000	8.660E-13	10.95	.79	.50	.000	.851	.035



CFMT TE.T (92), PDAC-E PSI GAPS, RUN (93) 1973 PAGE 139

MACH = 17.230
RX E05 = 1.379E+CE
RL E05 = 7.311E-02
RE/METER = 3.111E+06
HO = 2.[illegible]9E+0[illegible] (W/M2-K)
TW =*555.0 (K)
STEP = .254 (CM)

TT = 1.027E+03(K)
PI = 5.171E+06(N/M2)
TI = 4.467E+01(K)
PI = 9.799E+01(N/M2)
(RHO V)1 = 1.011E+01(KG/M2-S)
GAP = .229 (CM)
CONF =STAG

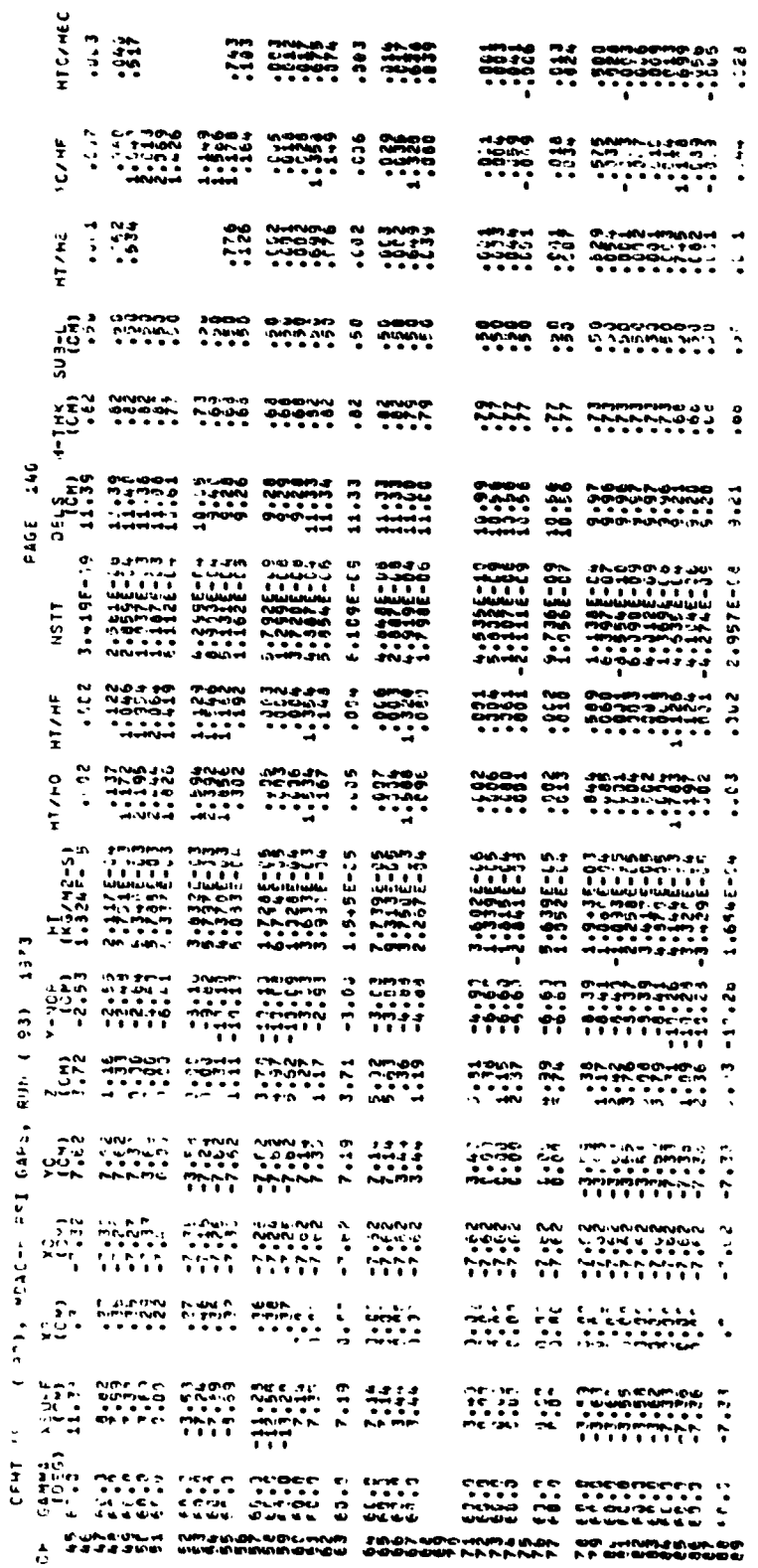
TAW/TT =0.495 FOR HT/HO
XSURF =SURFACE DISTANCE
(FLOW DIRECTION)
(0.0 OR 90 DEG.)
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9																	
10																	
11	60.0	11.34	7.62	3.00	7.62	3.74	3.81	4.749E-05	.000	.000	-2.974E-10	11.29	.81	.50	.000	-.010	-.020
12	60.0	10.65	7.62	[illegible]	7.62	2.36	3.81	-1.782E-05	[illegible]	[illegible]	[illegible]	11.29	.81	.50	[illegible]	[illegible]	[illegible]
13	60.0	9.83	7.62	[illegible]	7.62	1.14	3.81	5.438E-05	[illegible]	[illegible]	[illegible]	11.29	.81	.50	[illegible]	[illegible]	[illegible]
14	60.0	8.32	7.62	3.00	7.62	.33	3.81	6.133E-04	.281	.246	1.497E-05	11.29	.81	.50	.402	.227	.374
15	60.0	7.29	7.62	[illegible]	7.23	[illegible]	3.65	1.637E-03	[illegible]	[illegible]	[illegible]	11.32	.82	.50		[illegible]	
16	60.0	3.63	7.62	[illegible]	3.61	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.82	.50		[illegible]	
17	60.0	[illegible]	7.62	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.82	.50		[illegible]	
18	60.0	-3.54	7.62	[illegible]	-3.54	[illegible]	-1.77	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.82	.50		1.287	
19	60.0	-7.27	7.62	[illegible]	-7.27	[illegible]	-3.63	5.818E-03	2.594	2.182	1.261E-03	11.24	.81	.50		2.147	
[illegible]	60.0	-8.72	7.62	[illegible]	-7.62	1.17	-3.81	6.647E-04	.285	.248	1.637E-05	11.21	.81	.38	.114	.244	.114
23	60.0	-11.25	7.62	[illegible]	-7.62	3.70	-3.81	2.393E-05	.003	.003	6.690E-09	11.21	.81	.50	.001	.009	.006
24	60.0	-12.62	7.62	[illegible]	-7.62	5.07	-3.81	[illegible]	.000	.000	2.132E-09	11.21	.81	.50	.000	.032	.018
25	60.0	-13.29	7.62	[illegible]	-7.62	5.73	-3.81	1.235E-04	.001	.001	1.590E-08	11.21	.81	.50	.001	.048	.021
27	60.0	12.60	3.82	-3.80	7.62	5.04	.52	8.130E-05	.006	.005	4.280E-08	11.56	.83	.50	.006	.031	.032
28	60.0	11.36	3.85	-3.76	7.62	3.72	.55	4.156E-05	.010	.003	3.711E-08	11.56	.83	.50	.010	.016	.016
29	60.0	10.40	3.81	-3.81	7.62	2.44	.51	-1.522E-05	.036	.006	-8.425E-09	11.56	.83	.50	.006	-.036	-.006
30	60.0	9.84	3.79	-3.83	7.62	1.15	.49	2.299E-05	.045	.041	9.374E-08	11.56	.83	.50	.044	.009	.069
31	60.0	7.97	3.75	-3.37	7.62	.33	.40	9.702E-04	.433	.390	3.762E-05	11.56	.83	.50	.414	.372	.384
32	60.0	7.24	[illegible]	[illegible]	7.24	3.00	.34	2.525E-03	1.039	.943	2.366E-04	11.56	.83	.50		.970	
[illegible]	60.0	3.71	[illegible]	-3.92	3.71	[illegible]	-1.54	[illegible]	1.367	1.229	3.949E-04	11.49	.83	.50		1.231	
[illegible]	60.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.315	1.182	3.557E-04	11.27	.81	.50		1.152	
[illegible]	60.0	-3.59	3.73	-3.35	-3.59	[illegible]	[illegible]	[illegible]	1.448	1.190	4.051E-04	10.93	.75	.50		1.192	
[illegible]	60.0	-3.28	3.65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.224	1.627	8.955E-04	10.47	.76	.50		1.716	
37	60.0	-7.57	3.83	-3.79	-7.62	.37	-7.09	3.374E-03	1.436	1.078	3.612E-04	10.41	.76	.50	.646	1.072	.625
38	60.0	-8.75	3.88	-3.74	-7.62	1.15	-7.05	1.941E-04	.128	.096	1.855E-06	10.42	.76	.50	.658	.062	.036
40	60.0	-11.22	3.92	-3.80	-7.62	3.62	-7.10	1.987E-05	.033	.012	3.862E-09	10.41	.76	.50	.001	.006	.004
41	60.0	-12.64	3.95	-3.67	-7.62	3.84	-6.93	9.318E-05	.376	.009	4.718E-08	10.44	.76	.50	.003	.032	.018
43	60.0	13.37	.27	-7.35	7.62	5.70	-2.55	1.125E-04	.001	.001	1.406E-08	11.39	.82	.50	.001	.043	.021

3.4-185



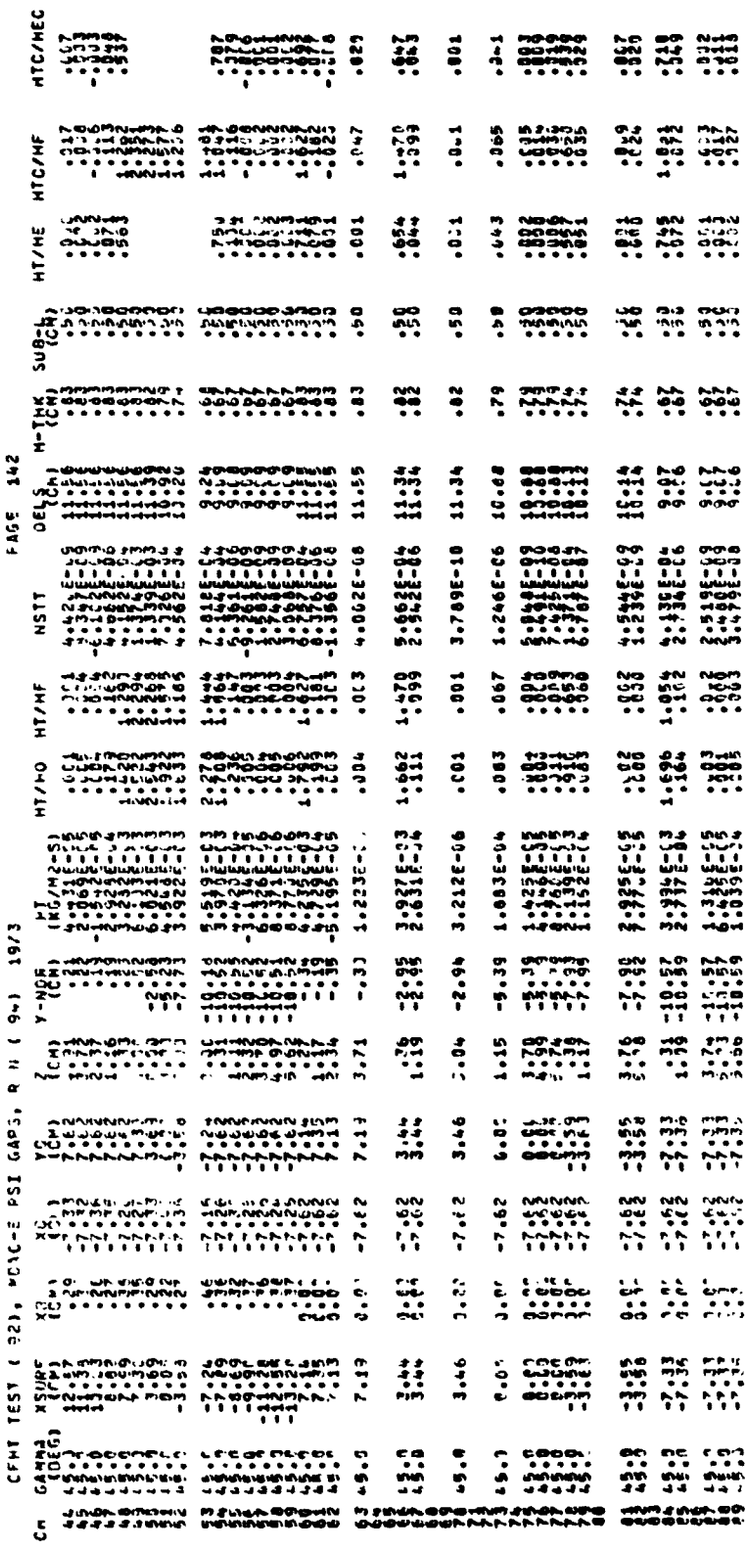
CFHT TEST (921), MDAC-E PSI GAPS, RUN (94) 1973 PAGE 141

MACH = 1.1.292E-01 PI = 5.1.900E+03(K)
RX =596 = 6.1.496E-01 PI = 4.7.91E+01(K)
RE/METER = 9.1.496E+06 PI = 9.0.196E+01(N/M2)
TIN = 294.0 (K) GAP (RHO V)1 = 1.229 (KG/M2-S)
STEP = .254 (CM) CONF =STAG

TAW/TT =0.895 FOR HT/HO TILE COORDINATES(GAMMA=45.)
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE CENTER
(FLOW DIRECTION) XC = Y-COOR. FROM TILE CENTER
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP SPECIFIC HEAT CORRECTED
HTC/HEC, CONDUCTION CORRECTED HT/HE RATIOED TO FLAT PLATE

C+	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CP)	HI (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	H/C/HF	HTC/HEC
	45.0	-13.29	4.9	-3.62	-7.62	3.60	-7.95	-9.737E-05	.002	.001	-1.375E-06	10.13	.74	.50	.031	-.930	-.923

3.4-107



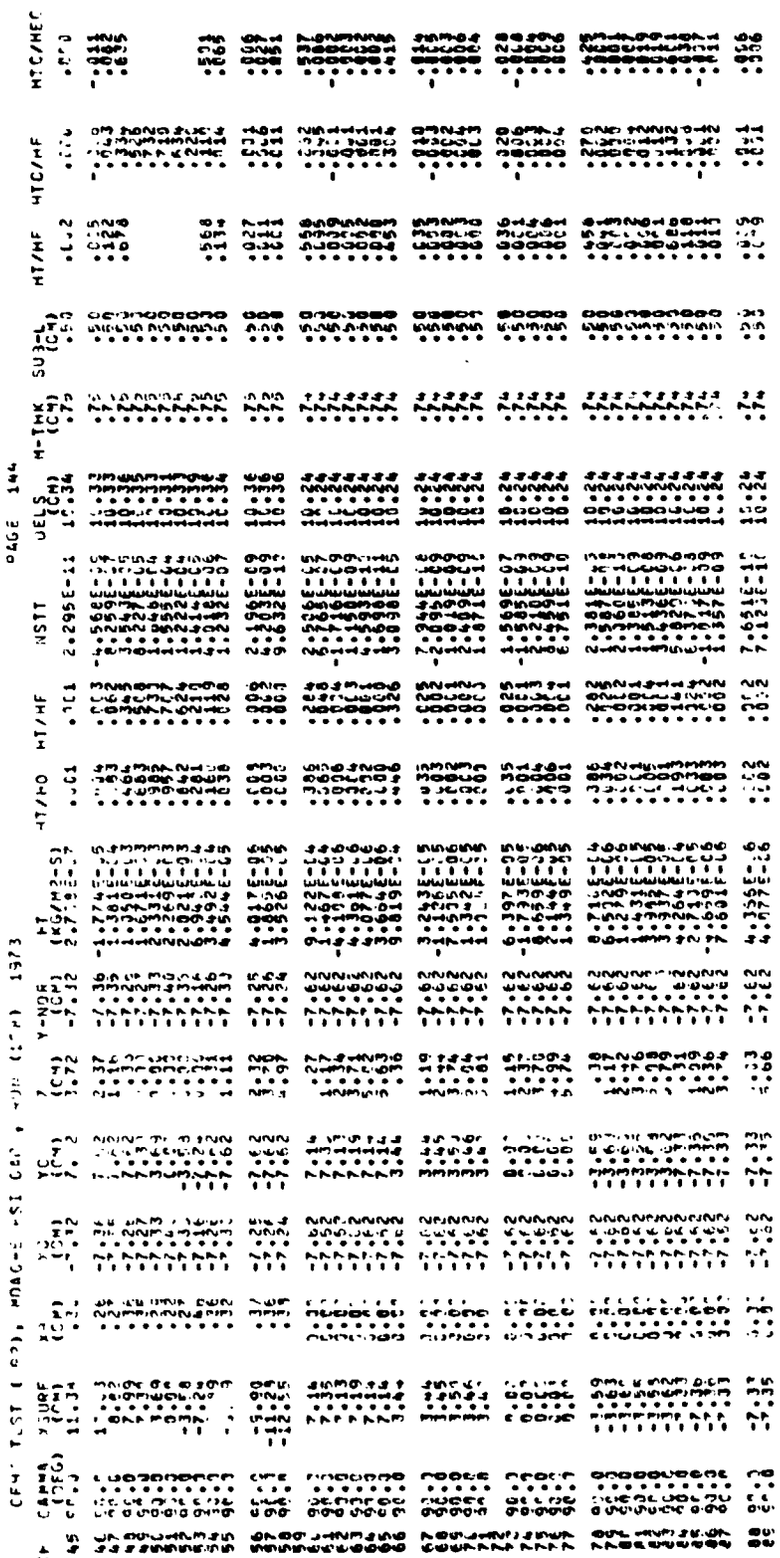
CFHT TEST (92), MDAC-E RSI GAPS, RUN (123) 1973 PAGE 143

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MACH       = 10.290                TT        = 9.993E+02(K)
RX E06     = 5.937E-11             PI        = 5.186E+06(N/M2)
RL E06     = 5.446E-02             T1        = 4.679E+01(K)
RE/METER   = 3.328E+06             P1        = 7.064E+01(N/M2)
HO         = 2.619E+03(N/M2-K)     (RHO V)1  = 1.037E+01(KG/M2-S)
TW         = 298.4 (K)             GAP       = .229 (CM)
STEP       = -.166(CM)             CONF      =STAG

TAW/TT =0.995 FOR HT/HO            TILE COORDINATES(GAMMA=0,90)
XSURF  =SURFACE DISTANCE             XB = X-COOR. FROM TILE L.E.
        (FLOW DIRECTION)             XC = X-COOR. FROM TILE CENTER
        (0.0 OR 90 DEG )             YC = Y-COOR. FROM TILE CENTER     SPECIFIC HEAT CORRECTED
HT/HF, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE
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CP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	90.0	13.39	7.62	0.00	7.62	5.73	0.00	1.455E-05	.005	.005	6.458E-09	11.56	.83	.50	.009	.006	.011
10	90.0	12.72	7.62	0.00	7.62	5.03	0.00	9.238E-06	.003	.003	2.769E-09	11.56	.83	.50	.006	.004	.007
11	90.0	11.34	7.62	0.00	7.62	3.74	0.00	1.818E-05	.005	.005	4.542E-09	11.56	.83	.50	.009	.004	.006
12	90.0	10.05	7.62	0.00	7.62	2.36	0.00	-1.679E-05	.003	.003	-4.693E-09	11.56	.83	.50	.006	-.006	-.013
13	90.0	8.83	7.62	0.00	7.62	1.14	0.00	4.817E-05	.051	.047	2.173E-07	11.56	.83	.50	.095	.019	.037
14	90.0	8.02	7.62	0.00	7.62	.33	0.00	6.562E-04	.237	.278	1.719E-05	11.56	.83	.50	.557	.263	.818
15	90.0	7.29	7.62	0.00	7.29	0.00	0.00	1.286E-03	.533	.409	6.844E-05	11.56	.83	.50		.495	
16	90.0	3.63	7.62	0.00	3.63	0.00	0.00	2.610E-03	1.109	1.001	2.830E-04	11.56	.83	.50		1.035	
17	90.0	0.00	7.62	0.00	0.00	0.00	0.00	2.667E-03	1.130	1.028	2.657E-04	11.56	.83	.50		1.028	
18	90.0	-3.54	7.62	0.00	-3.54	0.00	0.00	2.544E-03	1.083	.980	2.344E-04	11.56	.83	.50		.938	
19	90.0	-7.27	7.62	0.00	-7.27	0.03	0.00	1.050E-03	.450	.410	4.281E-05	11.56	.83	.50		.408	
20																	
21	90.0	-8.72	7.62	0.00	-7.62	1.17	0.00	7.693E-05	.047	.042	3.198E-07	11.56	.83	.50	.103	.038	.073
22	90.0	-9.94	7.62	0.00	-7.62	2.39	0.00	1.986E-06	.010	.009	1.718E-09	11.56	.83	.50	.022	.031	.062
23	90.0	-11.25	7.62	0.00	-7.62	3.78	0.00	2.796E-05	.087	.006	1.707E-08	11.56	.83	.50	.015	.011	.026
24	90.0	-12.52	7.62	0.00	-7.62	2.07	0.00	3.362E-05	.004	.004	1.196E-08	11.56	.83	.50	.009	.013	.032
25	90.0	-13.24	7.62	0.00	-7.62	5.73	0.00	4.119E-05	.003	.004	1.683E-08	11.56	.83	.50	.010	.016	.039
26	90.0	13.35	3.86	-3.76	7.62	3.78	-3.76	6.837E-05	.004	.004	2.451E-08	11.21	.81	.50	.007	.025	.043
27	90.0	12.68	3.82	-3.80	7.62	5.96	-3.80	4.427E-05	.002	.002	7.534E-09	11.21	.81	.50	.003	.016	.028
28	90.0	11.35	3.85	-3.76	7.62	3.72	-3.76	3.042E-06	.000	.000	1.185E-1[illegible]	11.21	.81	.50	.001	.001	.002
29																	
30	90.0	8.93	3.79	-3.83	7.62	1.16	-3.83	5.620E-05	.051	.044	2.435E-07	11.20	.81	.50	.678	.021	.035
31	90.0	7.97	3.75	-3.87	7.62	.33	-3.87	8.874E-04	.381	.330	2.839E-05	11.20	.81	.50	.586	.325	.559
32	90.0	7.24	3.83	-3.79	7.24	[illegible]	-3.79	1.583E-03	.650	.565	6.660E-05	11.21	.81	.50		.582	
33	90.0	3.71	3.73	-3.92	3.71	0.00	-3.92	2.619E-03	1.106	.956	2.429E-04	11.19	.81	.50		.959	
34	90.0	0.69	3.67	-3.95	0.00	0.00	-3.95	2.623E-03	1.109	.958	2.433E-04	11.18	.81	.50		.959	
35	90.0	-3.89	3.73	-3.89	-3.53	0.00	-3.89	2.590E-03	1.097	.949	2.389E-04	11.19	.81	.50		.932	
36	90.0	-7.29	3.88	-3.74	-7.24	0.00	-3.74	1.263E-03	.519	.452	5.524E-05	11.22	.81	.50		.405	
37	90.0	-7.97	3.83	-3.79	-7.62	.37	-3.79	4.345E-04	.202	.175	7.372E-06	11.21	.81	.50	.388	.160	.344
38	90.0	-8.75	3.84	-3.74	-7.62	1.15	-3.74	5.957E-06	.031	.027	1.545E-08	11.22	.81	.50	.059	.032	.063
39	90.0	-9.95	3.82	-3.81	-7.62	2.35	-3.81	1.965E-07	.002	.002	3.662E-11	11.21	.81	.50	.004	.010	.008
40	90.0	-11.22	3.82	-3.81	-7.62	3.62	-3.81	6.757E-05	.003	.003	1.811E-08	11.21	.81	.50	.076	.025	.053
41																	
42																	
43	90.0	13.37	.27	-7.35	7.62	5.73	-7.35	1.480E-05	.001	.001	3.778E-10	10.33	.75	.55	.011	[illegible]	.009
44	90.0	12.57	.29	-7.33	7.62	4.91	-7.33	8.316E-06	.001	.003	3.358E-10	10.33	.75	.55	.011	[illegible]	.005

3.4-215



CFHT TEST (92), MDAC-E RSI GAPS, RUN (129) 1973 PAGE 145

MACH = 10.290
RX E06 = 5.539E-01
RL E06 = 8.451E-02
RE/METER = 3.327E+06
HO = 2.619E+03(W/M2
TW = 298.7 (K)
STEP = -.188(CM)

TT = 9.938E+02(K)
PI = 9.105E+06(N/M2)
T1 = 4.677E+01(K)
P1 = 9.863E+01(N/M2)
(RHO V)1 = 1.037E+01(KG/M2-S)
GAP = .229 (CM)
CONF =STAG

TAW/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)

TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

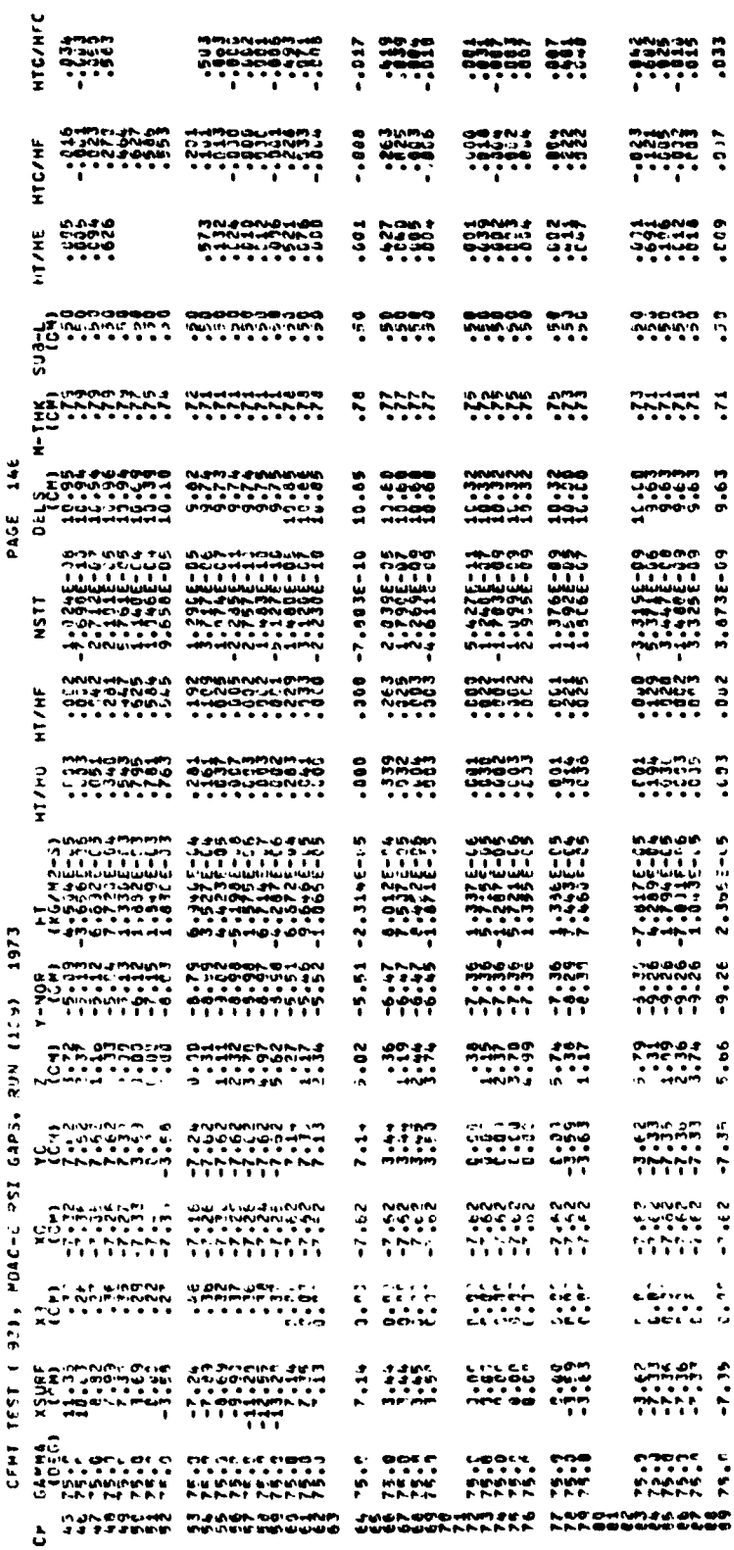
SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	75.0	13.39	7.62	0.00	7.62	2.70	1.97	1.143E-05	.002	.002	2.453E-09	11.50	.83	.50	.005	.004	.009
10	75.0	12.72	7.62	0.00	7.62	5.03	1.97	5.032E-06	.000	.000	1.496E-13	11.50	.83	.50	.001	.002	.004
11	75.0	11.34	7.62	0.00	7.62	3.74	1.97	2.239E-06	.000	.000	7.553E-11	11.50	.83	.50	.001	.001	.002
12	75.0	10.05	7.62	0.00	7.62	2.36	1.97	-1.937E-05	.000	.000	-7.567E-10	11.50	.83	.50	.001	-.007	-.014
13	75.0	9.03	7.62	0.00	7.62	1.14	1.97	4.175E-05	.048	.047	1.739E-07	11.50	.83	.50	.008	.016	.032
14	75.0	8.02	7.62	0.00	7.62	.33	1.97	6.663E-04	.302	.278	1.744E-05	11.50	.83	.50	.553	.253	.506
15	75.0	7.29	7.62	0.00	7.33	0.00	1.89	1.316E-03	.546	.489	6.237E-05	11.50	.83	.50		.500	
16	75.0	[illegible]	7.62	0.00	3.53	0.00	.94	2.601E-03	1.098	.992	2.499E-04	11.55	.83	.50		.995	
17	75.0	0.00	7.62	0.00	0.00	0.00	0.00	2.790E-03	1.142	1.048	2.719E-04	11.56	.83	.50		1.048	
18	75.0	-3.54	7.62	0.00	-3.54	0.00	-.52	2.583E-03	1.099	.993	2.465E-04	11.53	.83	.50		.988	
19	75.0	-7.27	7.62	0.00	-7.27	0.00	-1.88	1.161E-03	.485	.435	4.000E-05	11.46	.82	.50		.433	
20	75.0	-7.97	7.62	0.00	-7.62	.41	-1.97	4.974E-06	.002	.002	9.891E-10	11.45	.82	.50	.004	.002	.004
21	75.0	-8.72	7.62	0.00	-7.62	1.17	-1.97	8.859E-05	.049	.044	3.425E-07	11.45	.82	.50	.182	.031	.071
22	75.0	-9.96	7.62	0.00	-7.62	2.39	-1.97	-3.975E-06	.000	.007	-2.071E-09	11.45	.82	.50	.017	-.002	-.003
23	75.0	-11.25	7.62	0.00	-7.62	3.70	-1.97	1.749E-05	.003	.003	5.008E-09	11.45	.82	.50	.007	.007	.015
24	75.0	-12.62	7.62	0.00	-7.62	5.07	-1.97	3.656E-05	.006	.005	1.074E-08	11.45	.82	.50	.012	.014	.032
25	75.0	-13.28	7.62	0.00	-7.62	5.73	-1.97	3.434E-05	.002	.002	6.938E-09	11.45	.82	.50	.005	.013	.030
26																	
27																	
28																	
29	75.0	10.00	3.81	-3.81	7.62	2.44	-1.71	-1.538E-04	.002	.002	-2.556E-08	11.48	.83	.50	.002	-.061	-.083
30	75.0	8.89	3.79	-3.83	7.62	1.16	-1.73	4.249E-05	.056	.050	2.066E-07	11.47	.82	.50	.071	.016	.022
31	75.0	7.97	3.75	-3.87	7.62	.33	-1.76	1.028E-03	.453	.406	4.147E-05	11.47	.82	.50	.573	.391	.537
32	75.0	7.24	3.83	-3.79	7.24	0.00	-1.79	1.914E-03	.791	.710	1.316E-04	11.47	.82	.50		.727	
33	75.0	3.71	3.70	-3.92	3.71	0.00	-2.83	2.833E-03	1.197	1.061	2.913E-04	11.35	.82	.50		1.064	
34	75.0	0.00	3.67	-3.95	0.00	0.00	-3.82	2.652E-03	1.126	.977	2.520E-04	11.20	.81	.50		.979	
35	75.0	-3.59	3.73	-3.89	-3.59	0.00	-4.69	2.575E-03	1.087	.911	2.273E-04	11.04	.80	.50		.914	
36	75.0	-7.29	3.88	-3.74	-7.29	0.00	-5.59	1.272E-03	.523	.423	5.216E-05	10.85	.78	.50		.436	
37	75.0	-7.97	3.83	-3.79	-7.62	.37	-5.63	4.203E-04	.199	.165	6.641E-06	10.83	.78	.50	.381	.146	.334
38	75.0	-8.75	3.88	-3.74	-7.62	1.15	-5.59	1.854E-05	.036	.029	5.248E-08	10.83	.78	.50	.069	.006	.015
39	75.0	-9.95	3.82	-3.80	-7.62	2.35	-5.64	1.023E-05	.006	.005	5.090E-09	10.82	.78	.50	.012	.033	.088
40	75.0	-11.22	3.82	-3.80	-7.62	3.62	-5.64	6.787E-05	.003	.002	1.596E-09	10.82	.78	.50	.006	.023	.053
41																	
42	75.0	-13.25	4.00	-3.62	-7.62	5.68	-5.47	-5.396E-05	.001	.001	-4.732E-09	10.86	.78	.50	.002	-.019	-.042
43																	
44																	

3.4-217

ORIGINAL PAGE IS OF POOR QUALITY



CFMT TEST (92), MDAC-E RSI GAPS, RUN (110) 1973 PAGE 147

SPECIFIC HEAT CORRECTED

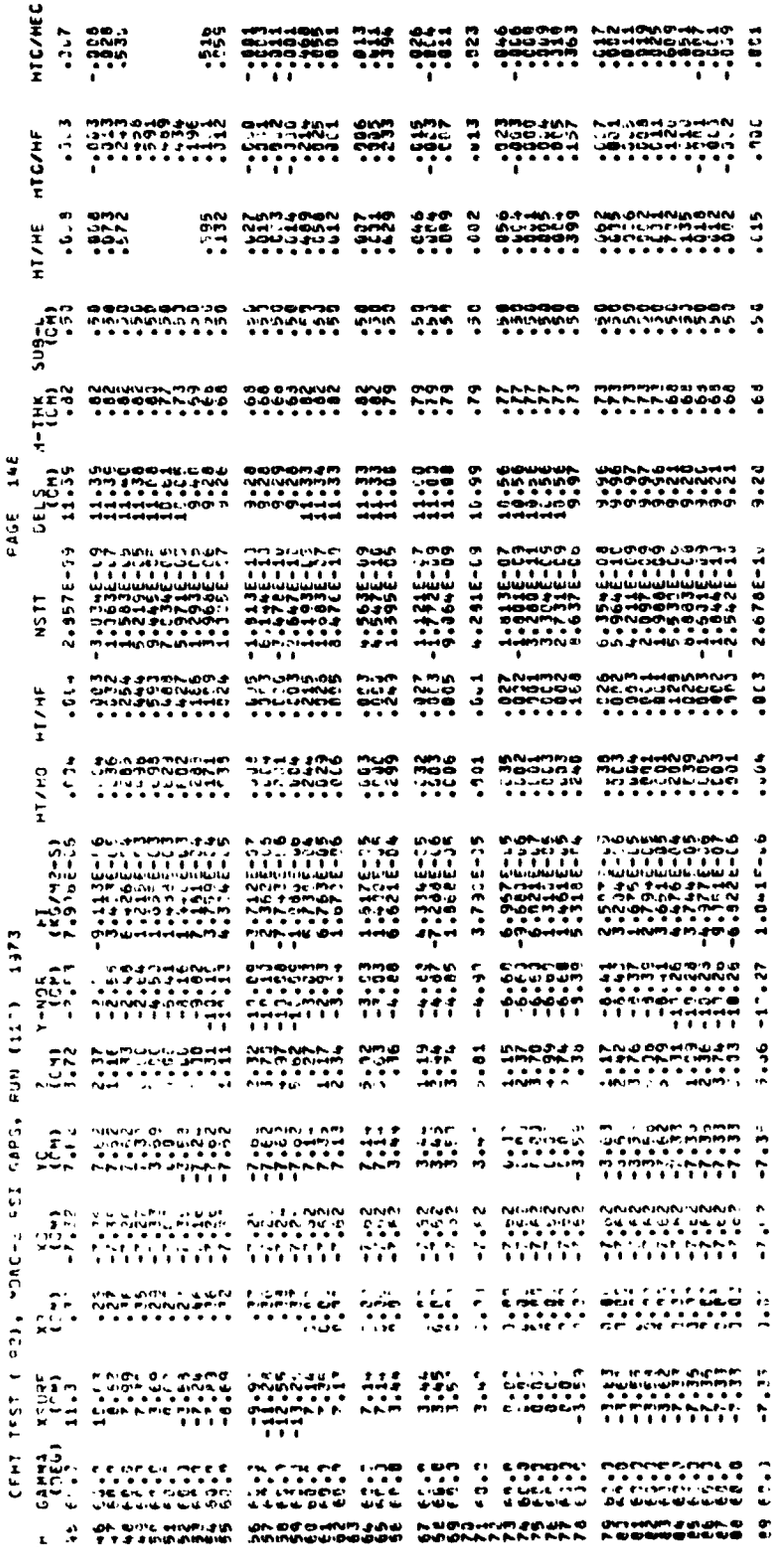
MACH = 15.296 TT = 9.232E+02(K)
UNIT RAD = 1.000E-01 PT = 5.119E+01(N/M2)
RAD/METER = 1.000E+01 DT = 4.687E+02(K)
RHO = 2.619E-04(KG/M3) QRHO V11 = 3.088E+01(KG/M2-S)
TIME = 298.9 (SEC) GAP = 1.829 (CM)
STEP = -.14 (SEC) CONF = STAG

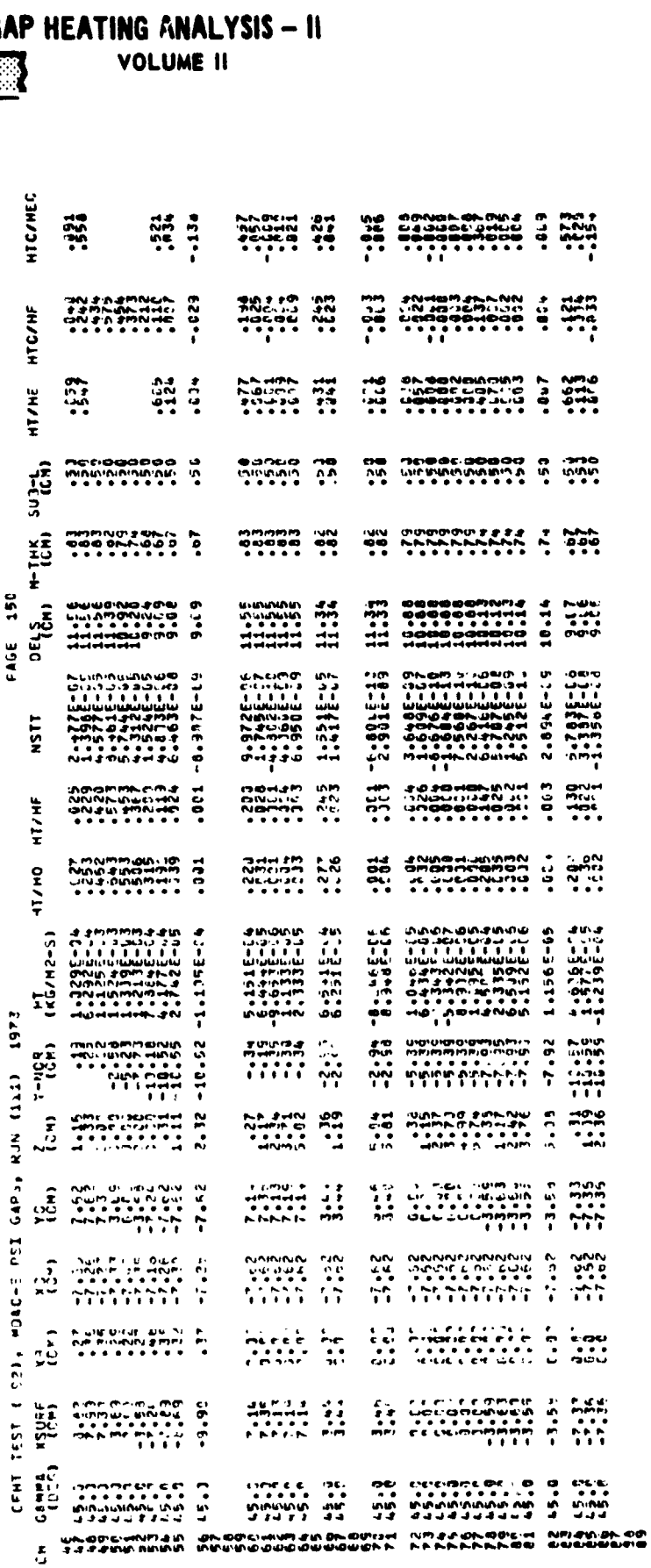
IAN/TT =3.895 FCR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE X9 = X-COOR. FROM TILE LEADING EDGE
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER
HT/HE, GAP HEATING RATIOED TO EDGE OF TILE TOP
HTC/HE, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HE, CONDUCTION CORRECTED HT/HE

CP	GAMMA (DEG)	XSURF (CM)	X9 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1.000	0.00	13.39	7.62	0.00	7.62	5.78	3.81	1.871E-04	.684	.803	3.199E-08	11.29	.81	.50	.036	.040	.871

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2.3-174





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CFMT TEST (92), MGAG-E RSI GAPS, RUN (123) 1973

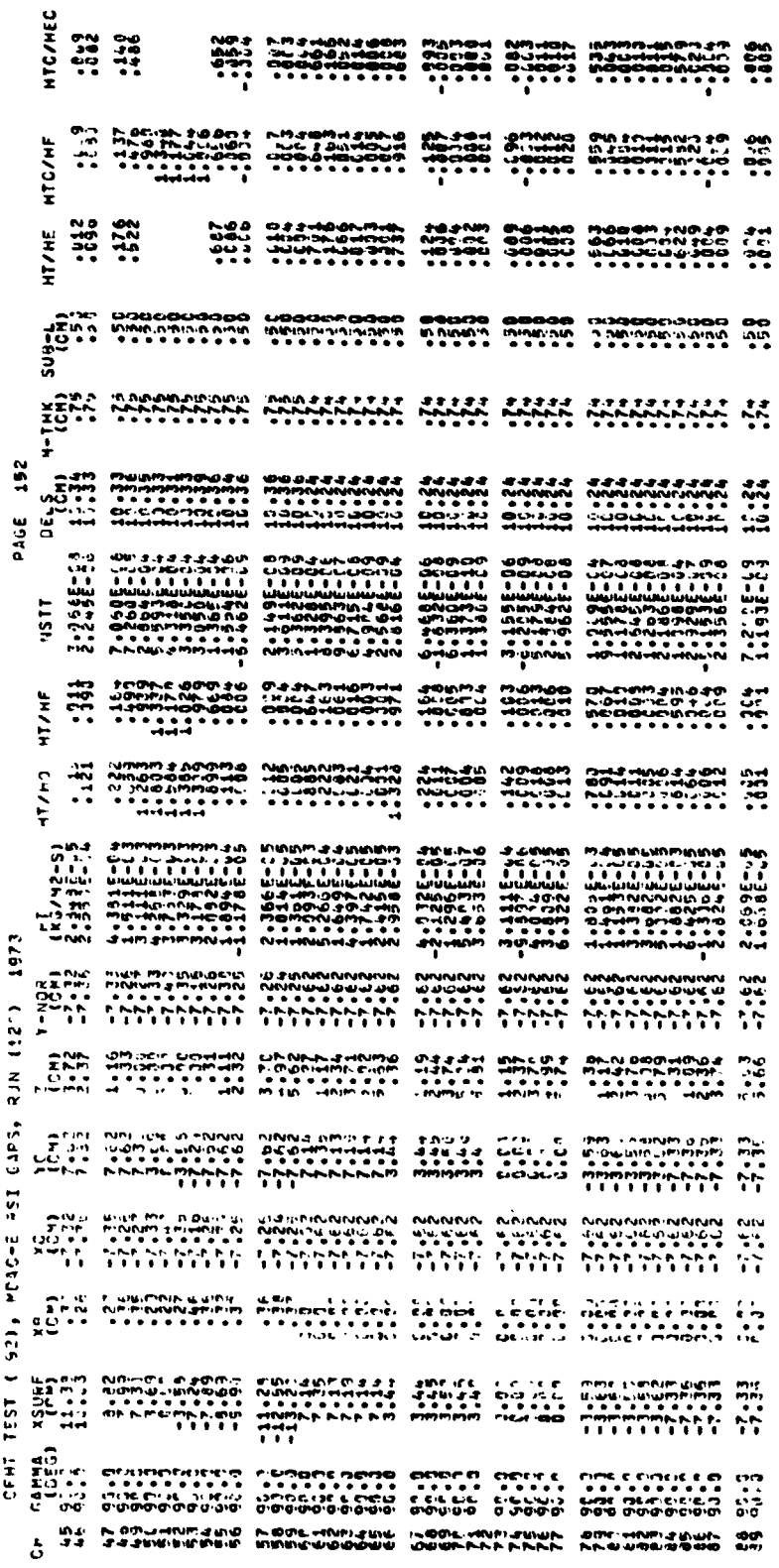
MACH = 1.297 TT = = 1.207E+03(K)
PX,E06 = 5.771E-11 PI = = 5.193E+06(N/M2)
AL,DEG = 8.210E+02 T1 = = 1.174E+03(K)
RHO = 2.216E+00 (KMD V)1 = = 9.812E+01(KG/M2-S)
TM = 267.4 (K) GAP = .711 (CM)
STEF = 6.00 (C*) CONF = STAG

TAW/TT =0.[illegible] FOR HT/HO
XSURF =SURFACE DISTANCE
(FLOW DIRECTION)
HT/HF, GAP HEATING RATIOED TO EDGE AI TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HF, CONDUCTION CORRECTED HT/HF

TILE COORDINATES(GAMMA=0.)
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

GP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	MI (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	90.00	12.39	7.62	7.62	7.62	5.70	0.00	-4.677E-07	.902	.905	-6.314E-11	11.56	.03	.50	.803	-.788	-.883
9	90.00	12.72	7.62	7.62	7.62	5.73	0.00	-3.468E-06	.906	.909	-2.881E-10	11.56	.03	.50	.812	-.881	-.888
9	90.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]



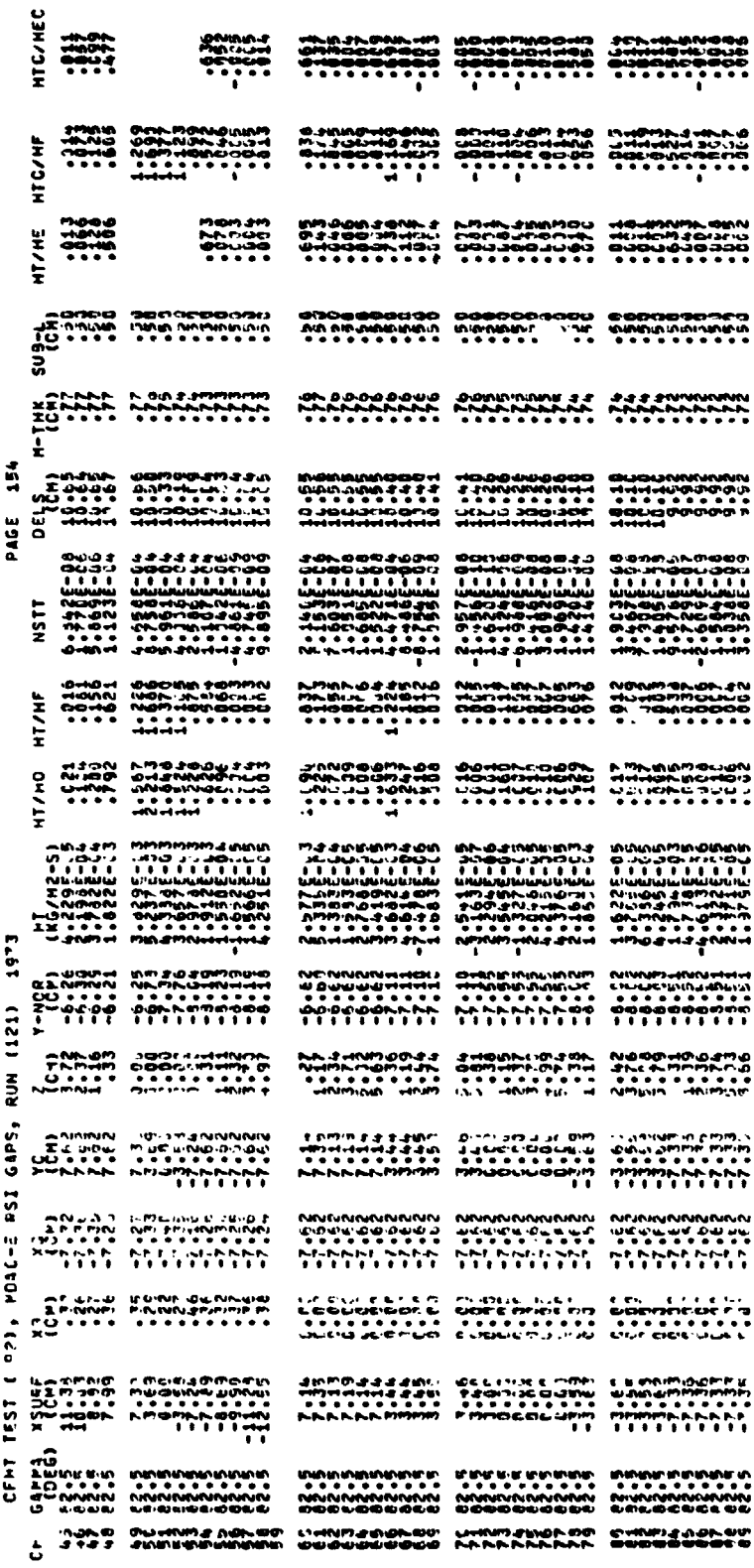
CFHT TEST (92), MDAC-E RSI GAPS, RUN (121) 1973 PAGE 153

MACH = 10.297 TT = 1.023E+03(K)
RX E06 = 1.070E+15 PI = 5.166E+06(N/M2)
RL E06 = 7.965E-02 TI = 4.833E+02(K)
RE/METER = 3.129E+06 PI = 9.786E+01(N/M2)
HO = 2.614E+08(N/M2-K) (RHO V)1 = 1.013E+01(-S)
TW = 555.4 (K) GAP = .711 (CM)
STEP = 0.000(CM) CONF =STAG

TAN/TT =0.395 FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 OR 90 DEG) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
16	82.5	12.72	7.62	5.01	7.62	5.13	.99	6.541E-05	.205	.065	3.068E-08	11.58	.83	.50	.610	.025	.050
17	82.5	11.36	7.62	3.75	7.62	3.87	.99	1.320E-04	.414	.132	6.434E-08	11.56	.83	.50	.610	.050	.100
18	82.5	10.00	7.62	2.39	7.62	2.50	.99	2.208E-04	.693	.221	1.117E-07	11.55	.83	.50	.610	.085	.170
19	82.5	8.63	7.62	1.02	7.62	1.14	.99	3.096E-04	.971	.310	1.599E-07	11.54	.83	.50	.610	.119	.238
20	82.5	7.27	7.62	-.34	7.62	-.23	.99	3.984E-04	1.250	.399	2.082E-07	11.53	.83	.50	.610	.154	.307
21	82.5	5.91	7.62	-1.71	7.62	-1.60	.99	4.872E-04	1.528	.488	2.564E-07	11.52	.83	.50	.610	.188	.377
22	82.5	4.54	7.62	-3.07	7.62	-2.96	.99	5.760E-04	1.807	.577	3.047E-07	11.51	.83	.50	.610	.223	.446
23	82.5	3.18	7.62	-4.44	7.62	-4.33	.99	6.648E-04	2.085	.666	3.529E-07	11.50	.83	.50	.610	.257	.515
24	82.5	1.82	7.62	-5.80	7.62	-5.69	.99	7.536E-04	2.364	.755	4.012E-07	11.49	.83	.50	.610	.292	.584
25	82.5	.45	7.62	-7.17	7.62	-7.06	.99	8.424E-04	2.642	.844	4.494E-07	11.48	.83	.50	.610	.326	.653
26	82.5	-.91	7.62	-8.53	7.62	-8.42	.99	9.312E-04	2.921	.933	4.977E-07	11.47	.83	.50	.610	.361	.722
27	82.5	-2.27	7.62	-9.90	7.62	-9.79	.99	1.020E-03	3.200	1.022	5.459E-07	11.46	.83	.50	.610	.395	.791
28	82.5	-3.64	7.62	-11.26	7.62	-11.15	.99	1.109E-03	3.478	1.111	5.942E-07	11.45	.83	.50	.610	.430	.860
29	82.5	-5.00	7.62	-12.63	7.62	-12.52	.99	1.197E-03	3.757	1.200	6.424E-07	11.44	.83	.50	.610	.464	.929
30	82.5	-6.36	7.62	-13.99	7.62	-13.88	.99	1.286E-03	4.035	1.289	6.907E-07	11.43	.83	.50	.610	.499	.998
31	82.5	-7.73	7.62	-15.36	7.62	-15.25	.99	1.375E-03	4.314	1.378	7.389E-07	11.42	.83	.50	.610	.533	1.067
32	82.5	-9.09	7.62	-16.72	7.62	-16.61	.99	1.463E-03	4.592	1.467	7.872E-07	11.41	.83	.50	.610	.568	1.136
33	82.5	-10.45	7.62	-18.09	7.62	-17.98	.99	1.552E-03	4.871	1.556	8.354E-07	11.40	.83	.50	.610	.602	1.205
34	82.5	-11.82	7.62	-19.45	7.62	-19.34	.99	1.641E-03	5.149	1.645	8.837E-07	11.39	.83	.50	.610	.637	1.274
35	82.5	-13.18	7.62	-20.82	7.62	-20.71	.99	1.729E-03	5.428	1.734	9.319E-07	11.38	.83	.50	.610	.671	1.343
36	82.5	-14.54	7.62	-22.18	7.62	-22.07	.99	1.818E-03	5.706	1.823	9.802E-07	11.37	.83	.50	.610	.706	1.412
37	82.5	-15.91	7.62	-23.55	7.62	-23.44	.99	1.907E-03	5.985	1.912	1.028E-06	11.36	.83	.50	.610	.740	1.481
38	82.5	-17.27	7.62	-24.91	7.62	-24.80	.99	1.995E-03	6.263	2.001	1.076E-06	11.35	.83	.50	.610	.775	1.550
39	82.5	-18.63	7.62	-26.28	7.62	-26.17	.99	2.084E-03	6.542	2.090	1.124E-06	11.34	.83	.50	.610	.809	1.619
40	82.5	-20.00	7.62	-27.64	7.62	-27.53	.99	2.173E-03	6.820	2.179	1.172E-06	11.33	.83	.50	.610	.844	1.688
41	82.5	-21.36	7.62	-29.01	7.62	-28.90	.99	2.261E-03	7.099	2.268	1.220E-06	11.32	.83	.50	.610	.878	1.757
42	82.5	-22.72	7.62	-30.37	7.62	-30.26	.99	2.350E-03	7.377	2.357	1.268E-06	11.31	.83	.50	.610	.913	1.826
43	82.5	-24.09	7.62	-31.74	7.62	-31.63	.99	2.439E-03	7.656	2.446	1.316E-06	11.30	.83	.50	.610	.947	1.895
44	82.5	-25.45	7.62	-33.10	7.62	-33.00	.99	2.527E-03	7.934	2.534	1.364E-06	11.29	.83	.50	.610	.982	1.964


CFMT TEST (02), MOLC-II RSI GAPS, RUN (121) 1973
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CFMT TEST (92), MDAC-E RSI GAPS, RUN (122) 1973

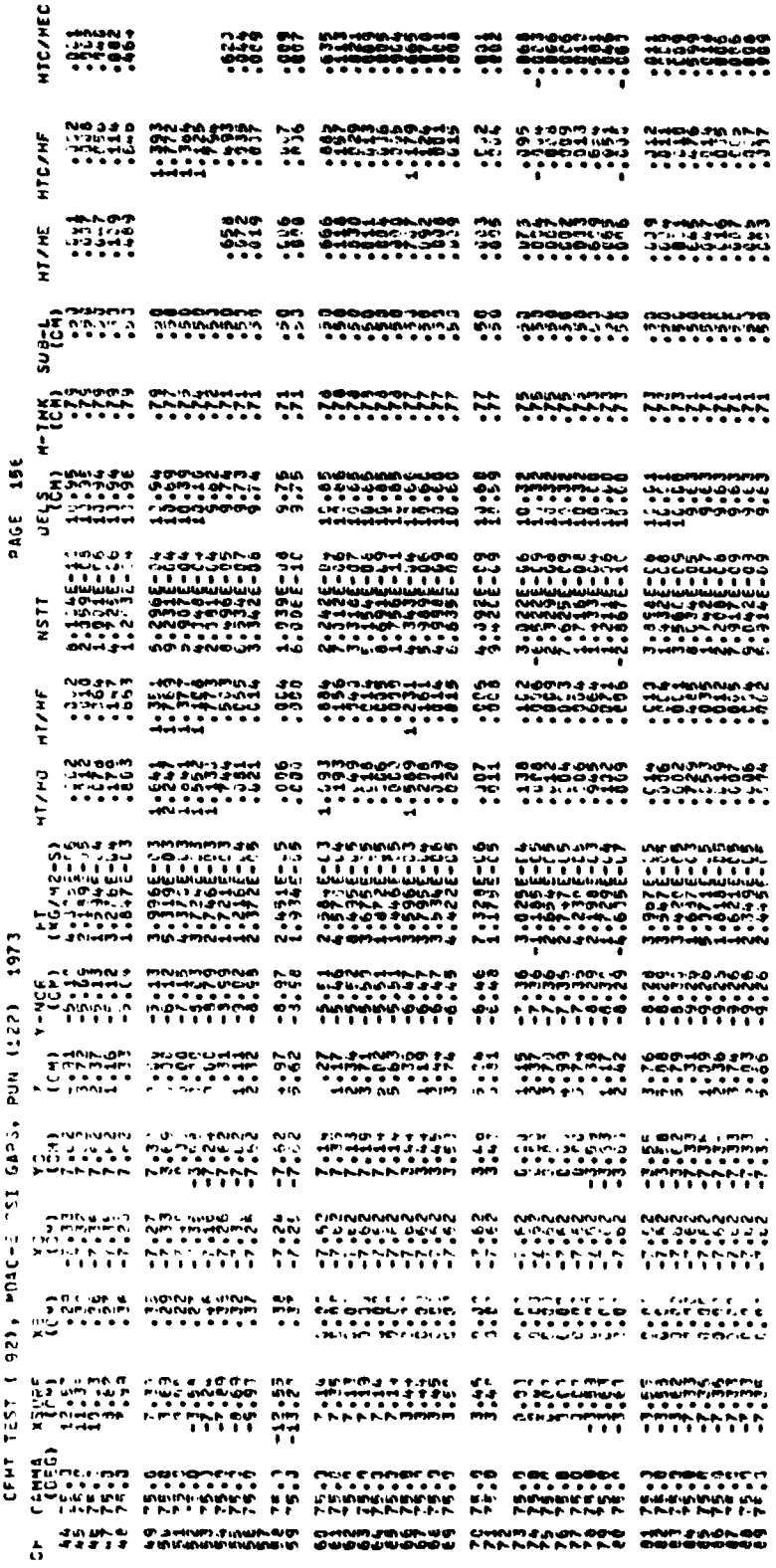
MACH = 10.292 TI = 1.097E+03(K)
REX/CM = 5.967E-01 PI = 5.187E+01(N/M2)
REX/FT = 6.133E+05 TT = 1.460E+03(K)
RADIUS = 6.220E+00(M) PINF = 4.248E+01(N/M2)
HNOSE = 2.695E+07(J/M2-K) (RHO V)1 = 1.802E+01(KG/M2-S)
TIME = 2.69E+02(S) GAP = .3711 (CM)
STEP = 60.0 (CM) CONF = STAG

TILE COORDINATES(GAMMA&G
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER
SPECIFIC HEAT CORRECTED

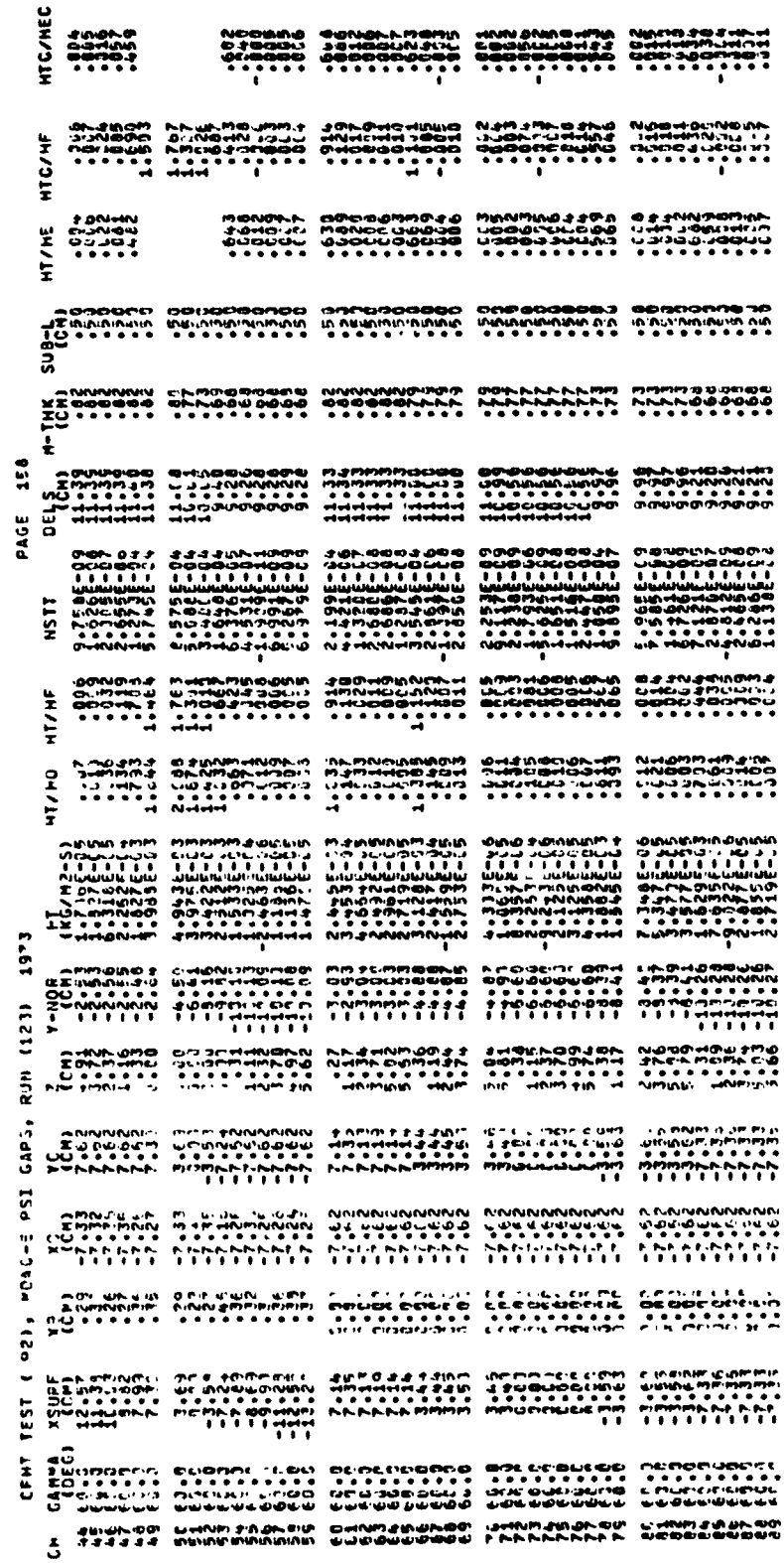
TAWTT =BASIC FCR HTING
XSURF =SURFACE DISTANCE
(FLOW DIRECTION)
HTC/HF, GAP HEATING RATIO(DED TO EDGE AT TILE TOP
HTC/HEC, CONDUCTION CORRECTED HT/HE
CORRECTED TO FLAT PLATE

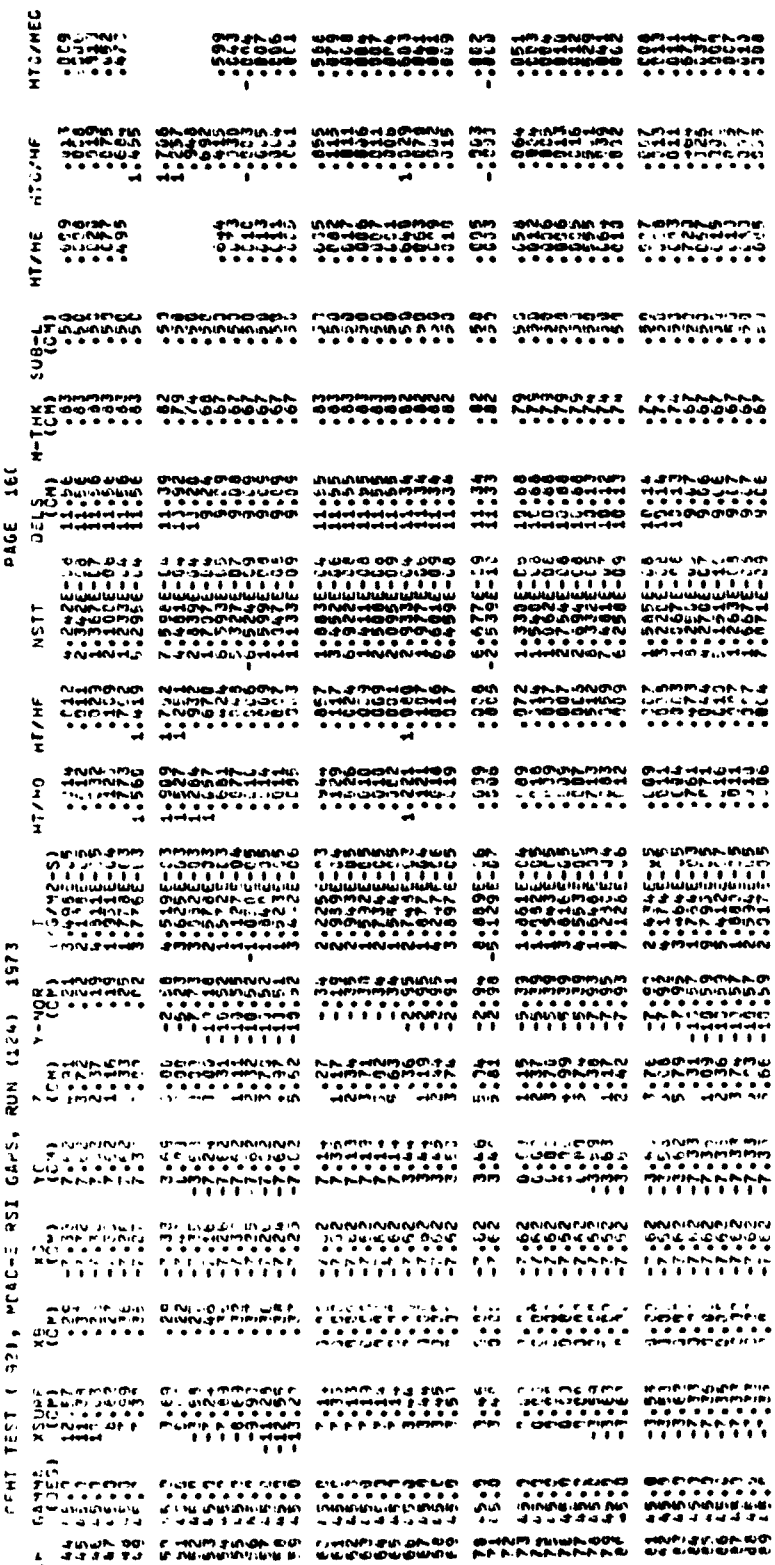
GP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTG/HF	HTC/HEC

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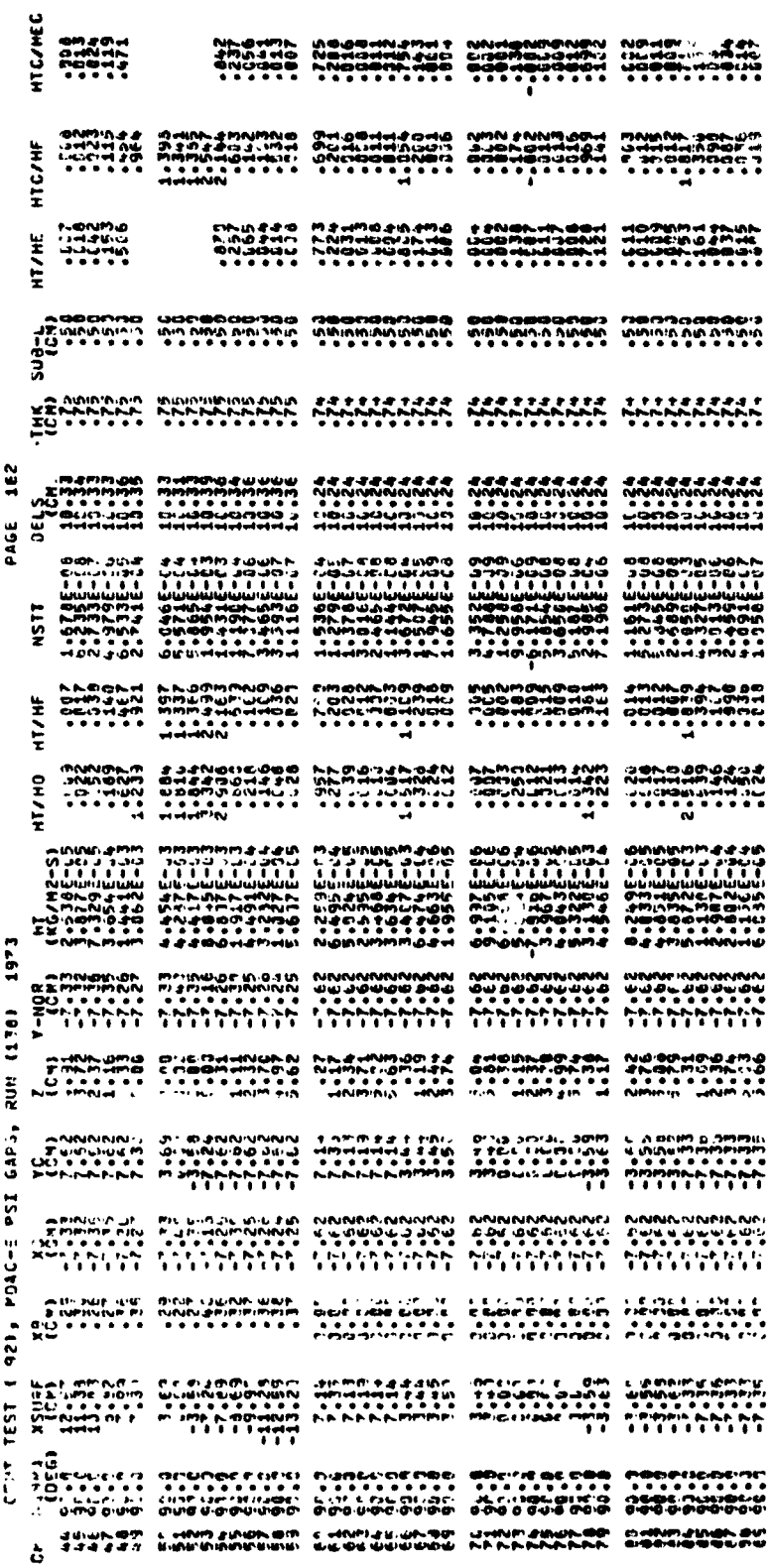


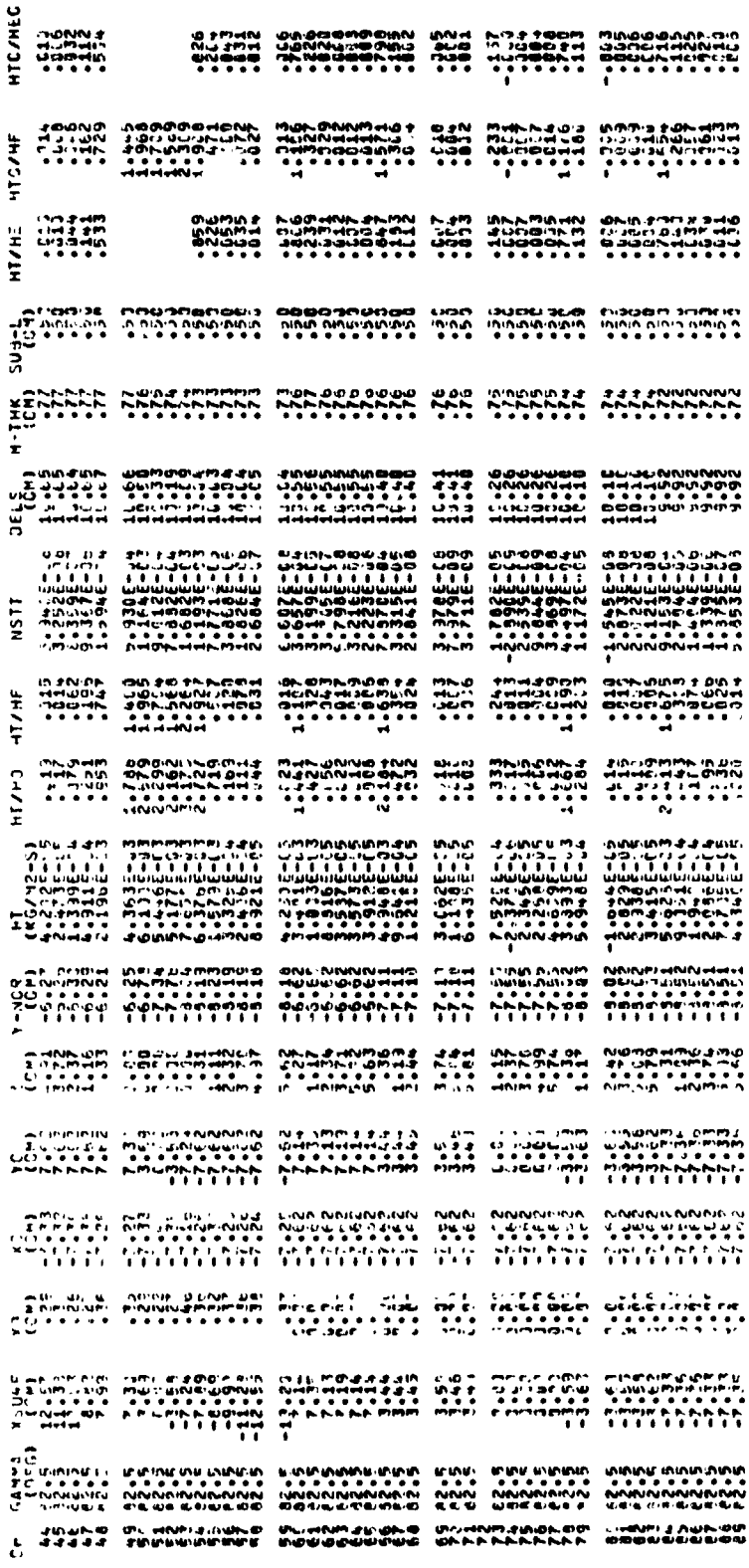
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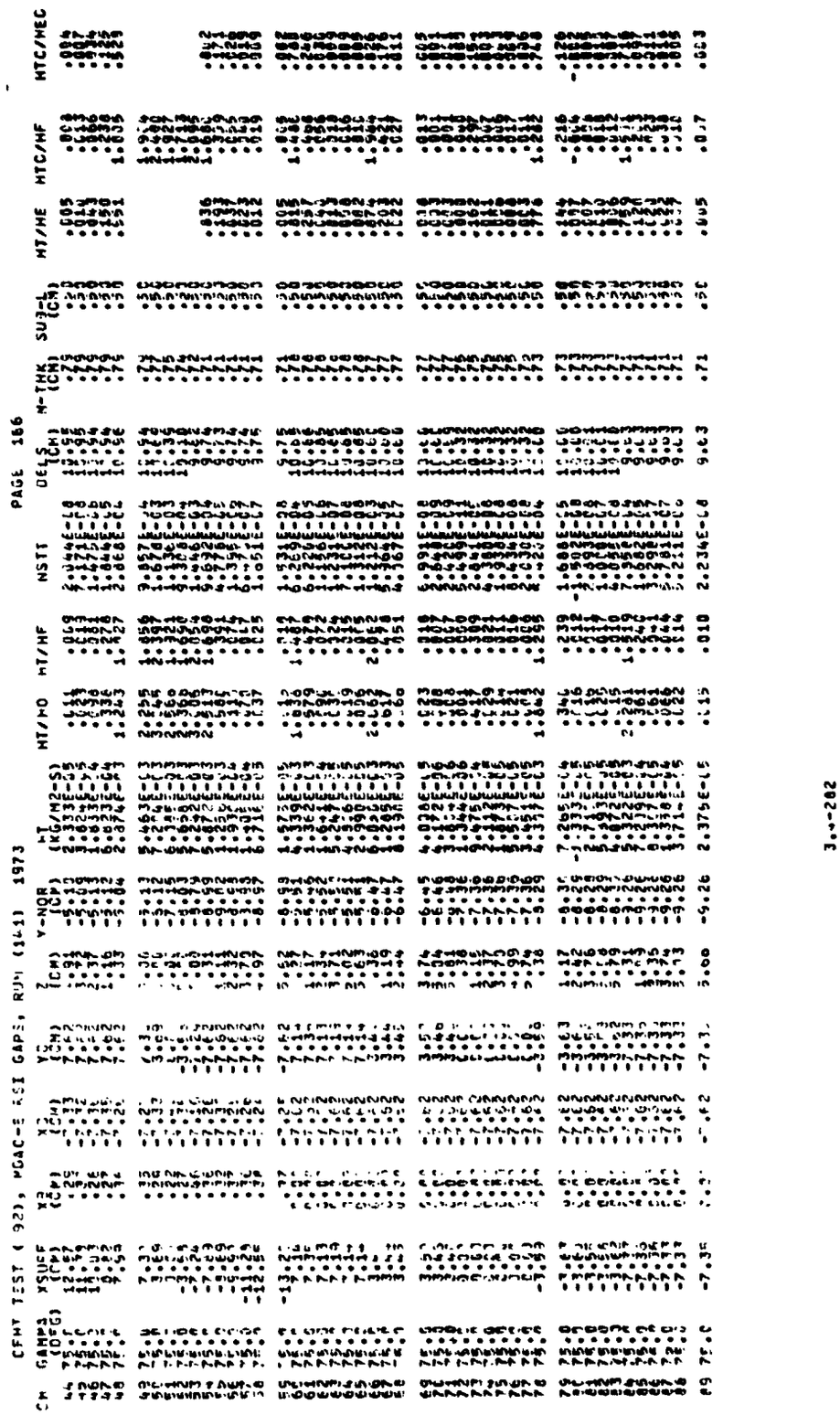


CFHT TEST (92), MDAC-E RSI GAPS, RUN (141) 1973 PAGE 165

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MACH      = 13.293               TT        =  9.963E+02(K)
RK EC6    =  5.900E-01           PI        =  5.177E+06(N/M2)
RL EC6    =  8.396E-02           T1        =  4.695E+01(K)
RE/METER  =  3.305E+06           P1        =  9.844E+01(N/M2)
HO        =  2.619E+00(W/M2-K)   (RHO V)1  =  1.334E+01(KG/M2-S)
TW        =  300.3 (K)           GAP       =  .711 (CM)
STEP      =  .254(CM)            CONF      = STAG

TAW/TT =0.895 FOR HT/HO          TILE COORDINATES(GAMMA=0.0
XSURF  =SURFACE DISTANCE            XB = X-COOR. FROM TILE L.E.
       (FLOW DIRECTION)             XC = X-COOR. FROM TILE CENTER
       (0.0 OR 90 DEG )             YC = Y-COOR. FROM TILE CENTER     SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF,GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE
```

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	W-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	75.0	13.33	7.62	[illegible]	7.62	5.70	1.97	3.150E-05	.013	.011	3.500E-08	11.50	.83	.50	.022	.012	.023
10	75.0	12.72	7.62	[illegible]	7.62	5.23	1.97	2.464E-05	.013	.012	2.861E-08	11.50	.83	.50	.023	.009	.018
11	75.0	11.34	7.62	[illegible]	7.62	3.74	1.97	3.045E-05	.026	.024	8.826E-08	11.50	.83	.50	.046	.015	.028
12	75.0	10.05	7.62	[illegible]	7.62	2.36	1.97	-6.299E-06	.024	.021	-1.299E-08	11.50	.83	.50	.142	-.032	-.105
13	75.0	8.83	7.62	[illegible]	7.62	1.14	1.97	8.934E-05	.060	.055	4.664E-07	11.50	.83	.50	.121	.034	.066
14	75.0	8.02	7.62	[illegible]	7.63	.33	1.97	3.280E-04	.149	.133	4.249E-06	11.50	.83	.50	.261	.124	.241
15	75.0	7.29	7.62	[illegible]	7.23	0.00	1.89	1.360E-03	.571	.512	6.763E-05	11.50	.83	.50		.516	
16	75.0	3.63	7.62	[illegible]	3.63	0.00	.94	2.751E-03	1.169	1.038	2.833E-04	11.50	.83	.50		1.026	
17	75.0	0.00	7.62	[illegible]	0.00	0.00	0.00	3.053E-03	1.302	1.185	3.516E-04	11.50	.83	.50		1.176	
18	75.0	-3.54	7.62	[illegible]	-3.54	0.00	-.92	3.362E-03	1.536	1.388	4.803E-04	11.53	.83	.50		1.363	
19	75.0	-7.27	7.62	[illegible]	-7.27	1.00	-1.88	6.916E-03	2.950	2.646	1.776E-03	11.46	.82	.50		2.622	
20	75.0	-7.97	7.62	[illegible]	-7.62	.41	-1.97	1.903E-06	.081	.061	1.336E-10	11.48	.82	.50	.088	.081	.089
21	75.0	-8.72	7.62	[illegible]	-7.62	1.17	-1.97	1.429E-03	.629	.563	7.822E-05	11.45	.82	.50	.213	.542	.207
22	75.0	-9.94	7.62	[illegible]	-7.62	2.39	-1.97	2.495E-04	.129	.115	2.793E-06	11.45	.82	.50	.044	.096	.036
23	75.0	-11.25	7.62	[illegible]	-7.62	3.73	-1.97	1.945E-04	.089	.080	1.503E-06	11.45	.82	.50	.030	.074	.028
24	75.0	-12.62	7.62	[illegible]	-7.62	2.07	-1.97	7.331E-05	.029	.026	1.872E-07	11.45	.82	.50	.010	.028	.011
25	75.0	-13.23	7.62	[illegible]	-7.22	2.73	-1.97	4.997E-05	.016	.015	8.757E-08	11.45	.83	.50	.005	.019	.007
26	75.0	13.35	3.86	-3.76	7.62	5.70	-1.66	1.430E-05	.005	.005	6.514E-09	11.48	.83	.50	.006	.008	.006
27	75.0	12.65	3.82	-3.80	7.62	5.14	-1.73	3.358E-05	.017	.015	5.976E-08	11.48	.83	.50	.019	.013	.015
28	75.0	11.36	3.86	-3.76	7.62	3.72	-1.66	2.748E-05	.021	.019	5.316E-08	11.48	.83	.50	.023	.018	.013
29	75.0	10.65	3.81	-3.81	7.62	2.44	-1.71	1.212E-04	.075	.067	7.945E-07	11.48	.83	.50	.084	.046	.055
30	75.0	8.83	3.79	-3.83	7.62	1.19	-1.73	6.031E-04	.280	.251	1.471E-05	11.47	.82	.50	.311	.229	.274
31	75.0	7.97	3.75	-3.87	7.62	.33	-1.76	1.037E-03	.449	.403	4.064E-05	11.47	.82	.50	.508	.364	.472
32	75.0	7.24	3.83	-3.85	7.24	[illegible]	-1.79	2.198E-03	.898	.806	1.722E-04	11.37	.82	.50		.835	
33	75.0	3.71	3.73	-3.92	3.71	0.00	-2.03	3.028E-03	1.281	1.136	3.343E-04	11.35	.82	.50		1.137	
34	75.0	0.00	3.67	-3.95	0.00	0.00	-3.82	3.118E-03	1.320	1.146	3.473E-04	11.20	.81	.50		1.146	
35	75.0	-3.59	3.77	-3.89	-3.59	0.00	-4.69	3.597E-03	1.522	1.276	4.46[illegible]E-04	11.04	.80	.50		1.276	
36	75.0	-7.23	3.89	-3.74	-7.22	0.00	-5.83	7.704E-03	3.254	2.633	1.992E-03	10.89	.78	.50		2.667	
37	75.0	-7.97	3.83	-3.79	-7.62	.37	-5.63	6.432E-03	2.746	2.209	1.381E-03	10.82	.78	.50	.044	2.191	.021
38	75.0	-8.74	3.88	-3.74	-7.62	1.15	-5.53	1.367E-03	.703	.567	8.632E-05	10.83	.78	.50	.216	.535	.201
39	75.0	-9.93	3.82	-3.81	-7.62	2.35	-5.64	5.571E-04	.269	.217	1.173E-05	10.82	.78	.50	.083	.198	.071
40	75.0	-11.22	3.82	-3.87	-7.62	3.62	-5.64	3.340E-04	.140	.113	3.667E-06	10.82	.78	.50	.043	.116	.043
41	75.0	-12.65	3.95	-3.57	-7.62	5.04	-5.51	1.097E-04	.052	.042	4.107E-07	10.65	.78	.50	.016	.034	.013
42	75.0	-13.29	4.02	-3.62	-7.62	5.98	-5.47	5.024E-05	.020	.017	8.566E-08	10.66	.79	.50	.006	.014	.005
43	75.0	13.37	.27	-3.35	7.62	5.73	-5.12	1.912E-05	.005	.004	7.713E-09	10.94	.79	.50	.002	.007	.004



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CFHT TEST (92), MDAC-E RSI SAPS, RUN (142) 1973 PAGE 167

MACH = 10.290 TT = 9.963E+02(K)
RX E06 = 5.894E-01 PT = 5.178E+06(N/M2)
RL E06 = 8.367E-02 T1 = 4.693E+01(K)
RE/METER = 3.382E+06 P1 = 9.844E+01(N/M2)
HO = 2.619E+00(W/M2-K) (RHO V)1 = 1.134E+01(KG/M2-S)
TW = 300.5 (K) GAP = .211 (CM)
STEP = .254(CM) CONF =STAG

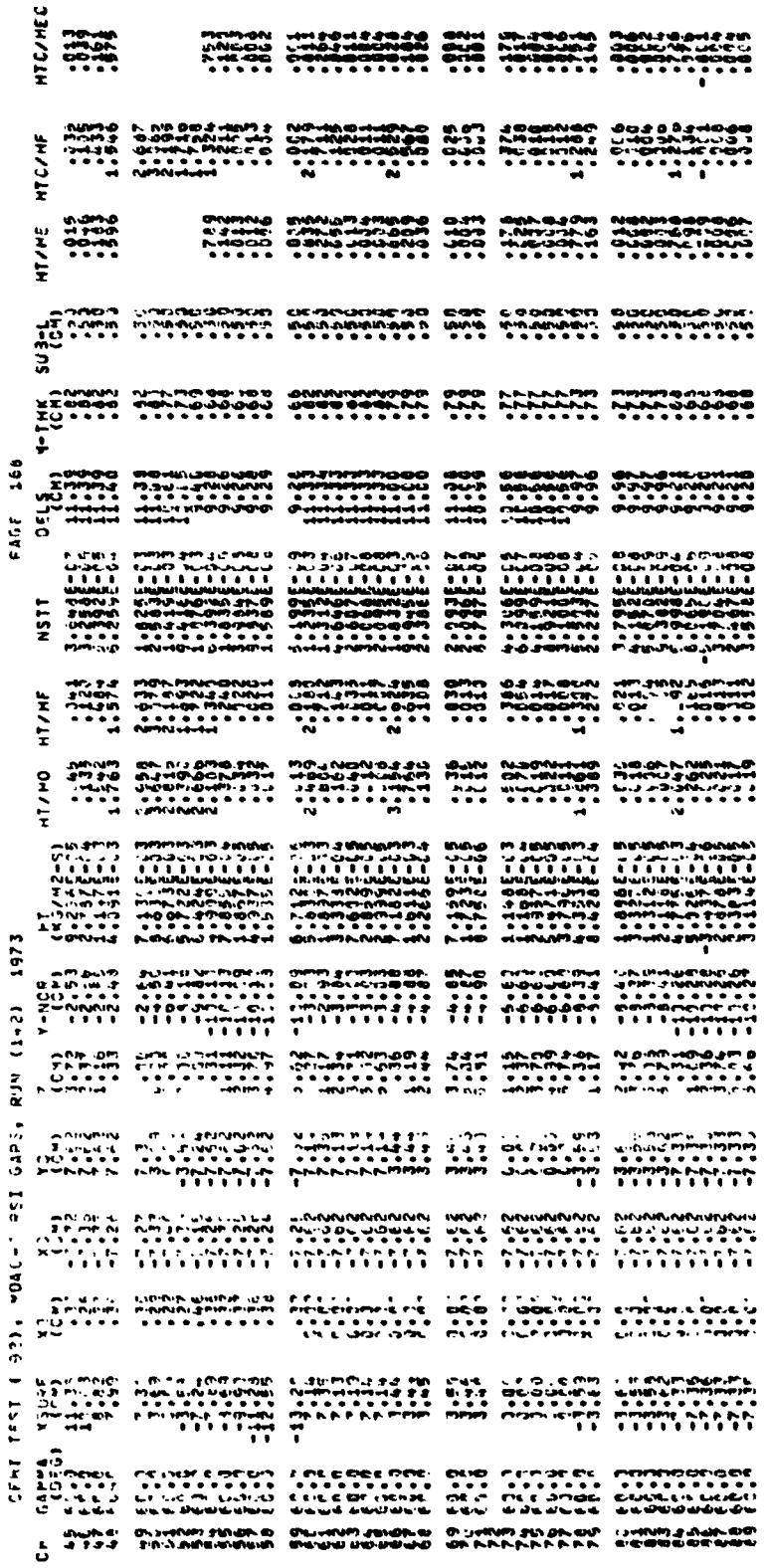
TAW/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)
TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER
SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	N-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	60.0	13.39	7.62	[illegible]	7.62	3.70	3.81	1.592E-05	.004	.004	5.952E-09	11.29	.81	.50	.007	.006	.010
10	60.0	12.72	7.62	[illegible]	7.62	3.03	3.81	3.138E-05	.015	.013	3.693E-08	11.29	.81	.50	[illegible]	[illegible]	[illegible]
11	60.0	11.34	7.62	[illegible]	7.62	3.74	3.81	2.722E-05	[illegible]	.018	4.669E-08	11.29	.81	.50	[illegible]	[illegible]	[illegible]
12	60.0	10.05	7.62	[illegible]	7.62	2.36	3.81	1.793E-05	[illegible]	.028	4.306E-08	11.29	.81	.50	[illegible]	[illegible]	[illegible]
13	60.0	8.83	7.62	[illegible]	7.62	1.14	3.81	1.261E-04	.078	[illegible]	[illegible]	11.29	.81	.50	.120	[illegible]	[illegible]
14	60.0	[illegible]	7.62	[illegible]	7.62	.33	3.81	4.777E-04	.214	[illegible]	4.702E-06	11.29	.81	.50	.331	.177	.313
15	60.0	7.29	7.62	[illegible]	7.29	0.00	3.65	[illegible]	.647	[illegible]	[illegible]	[illegible]	[illegible]	.50		[illegible]	
16	60.0	[illegible]	7.62	[illegible]	3.63	[illegible]	1.82	2.791E-03	1.183	[illegible]	[illegible]	[illegible]	.83	.50		[illegible]	
17	60.0	[illegible]	7.62	[illegible]	[illegible]	[illegible]	[illegible]	3.374E-03	1.313	1.195	3.571E-04	11.56	.83	.50		1.104	
18	60.0	-3.84	7.62	[illegible]	-3.54	[illegible]	-1.77	3.509E-03	1.543	[illegible]	4.795E-04	11.47	.82	.50		[illegible]	
19	60.0	-7.27	7.62	[illegible]	-7.27	[illegible]	-3.63	[illegible]	3.416	2.977	2.320E-03	11.24	.81	.50		[illegible]	
20	60.0	-7.97	7.62	[illegible]	-7.62	[illegible]	-3.81	[illegible]	.004	.004	[illegible]	[illegible]	.81	.50	.001	.004	.001
21	60.0	-8.72	7.62	[illegible]	-7.62	1.17	-3.81	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.81	.50	[illegible]	[illegible]	[illegible]
22	60.0	-9.94	7.62	[illegible]	-7.62	2.39	-3.81	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.81	.50	[illegible]	[illegible]	[illegible]
23	60.0	-11.25	7.62	[illegible]	-7.62	3.70	-3.81	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.81	.50	[illegible]	[illegible]	[illegible]
24	60.0	-12.52	7.62	[illegible]	-7.62	[illegible]	-3.81	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.81	.50	[illegible]	[illegible]	[illegible]
25	60.0	-13.28	7.62	[illegible]	-7.62	[illegible]	-3.81	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.81	.50	[illegible]	[illegible]	[illegible]
26	60.0	13.35	3.85	-3.76	7.62	3.70	.95	1.306E-05	[illegible]	.005	3.759E-09	[illegible]	.83	.50	[illegible]	[illegible]	[illegible]
27	60.0	12.68	3.82	[illegible]	7.62	5.04	.52	1.429E-06	.003	.003	3.970E-10	11.58	.83	.50	.003	.001	.001
28	60.0	11.35	3.86	-3.76	7.62	3.72	.85	[illegible]	[illegible]	.029	1.617E-07	[illegible]	.81	.50	[illegible]	[illegible]	[illegible]
29	60.0	10.73	[illegible]	[illegible]	7.62	2.44	[illegible]	[illegible]	.145	[illegible]	[illegible]	[illegible]	.81	.50	[illegible]	[illegible]	[illegible]
30	60.0	8.60	3.79	-3.83	7.62	1.16	.43	7.976E-04	.363	[illegible]	2.582E-05	[illegible]	.81	.50	[illegible]	[illegible]	[illegible]
31	60.0	7.97	1.75	-3.87	7.52	.33	.46	1.432E-03	.643	[illegible]	[illegible]	[illegible]	.81	.50	.569	[illegible]	.549
32	60.0	7.24	[illegible]	[illegible]	7.24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.81	.50		[illegible]	
33	60.0	3.91	3.74	[illegible]	3.71	0.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.81	.50		[illegible]	
34	60.0	[illegible]	3.67	-3.95	[illegible]	0.00	[illegible]	3.053E-03	1.293	[illegible]	[illegible]	11.27	.81	.50		[illegible]	
35	60.0	-3.99	3.73	-3.89	-3.59	0.00	-5.16	3.384E-03	[illegible]	[illegible]	3.873E-04	10.93	.79	.50		[illegible]	
36	60.0	-7.23	3.85	[illegible]	-7.24	.00	-6.08	7.717E-03	[illegible]	2.447	[illegible]	10.47	.76	.50		[illegible]	
37	60.0	-7.97	3.83	-3.79	-7.62	.37	-7.09	6.394E-03	2.729	2.048	1.273E-03	10.41	.76	.50	.846	2.031	.020
38	60.0	-8.73	3.88	-3.74	-7.62	1.15	-7.05	[illegible]	.728	.548	[illegible]	10.42	.76	.50	.226	.519	.218
39	60.0	-9.93	3.82	[illegible]	-7.62	2.35	[illegible]	[illegible]	.267	.200	[illegible]	10.41	.76	.50	[illegible]	.175	[illegible]
40	60.0	-11.22	3.82	[illegible]	-7.62	3.62	-7.10	2.927E-04	.123	[illegible]	[illegible]	10.41	.76	.50	.038	[illegible]	[illegible]
41	60.0	-12.65	[illegible]	[illegible]	-7.62	5.04	-5.99	[illegible]	.044	[illegible]	[illegible]	10.44	.76	[illegible]	.014	[illegible]	[illegible]
42	60.0	-13.23	[illegible]	-3.62	-7.62	5.50	[illegible]	2.042E-05	.014	.010	[illegible]	10.45	.76	.55	.034	.037	.003
44	60.0	12.87	.29	-7.33	7.62	-.91	-2.53	6.633E-05	.025	.022	1.447E-07	11.39	.82	.50	.008	.025	.009

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CFNT TEST (92), MDAC-E RSI GAPS, RUN (143) 1973

MACH = 10.230 TT = 9.873E+02 (K)
RX_EDG = 8.380E-01 PT = 5.116E+00 (N/M2)
RL_EDG = 8.380E-01 RHO = 4.695E-01 (KG/M3)
RN/METER = 3.319E+05 (N/M2-K) RHO V1 = 4.833E+02 (KG/M2-S)
T_WALL = 300.0 (K) GAP = 1.111 (CM)
STEP = 25.4 (CM) CONF = STAG

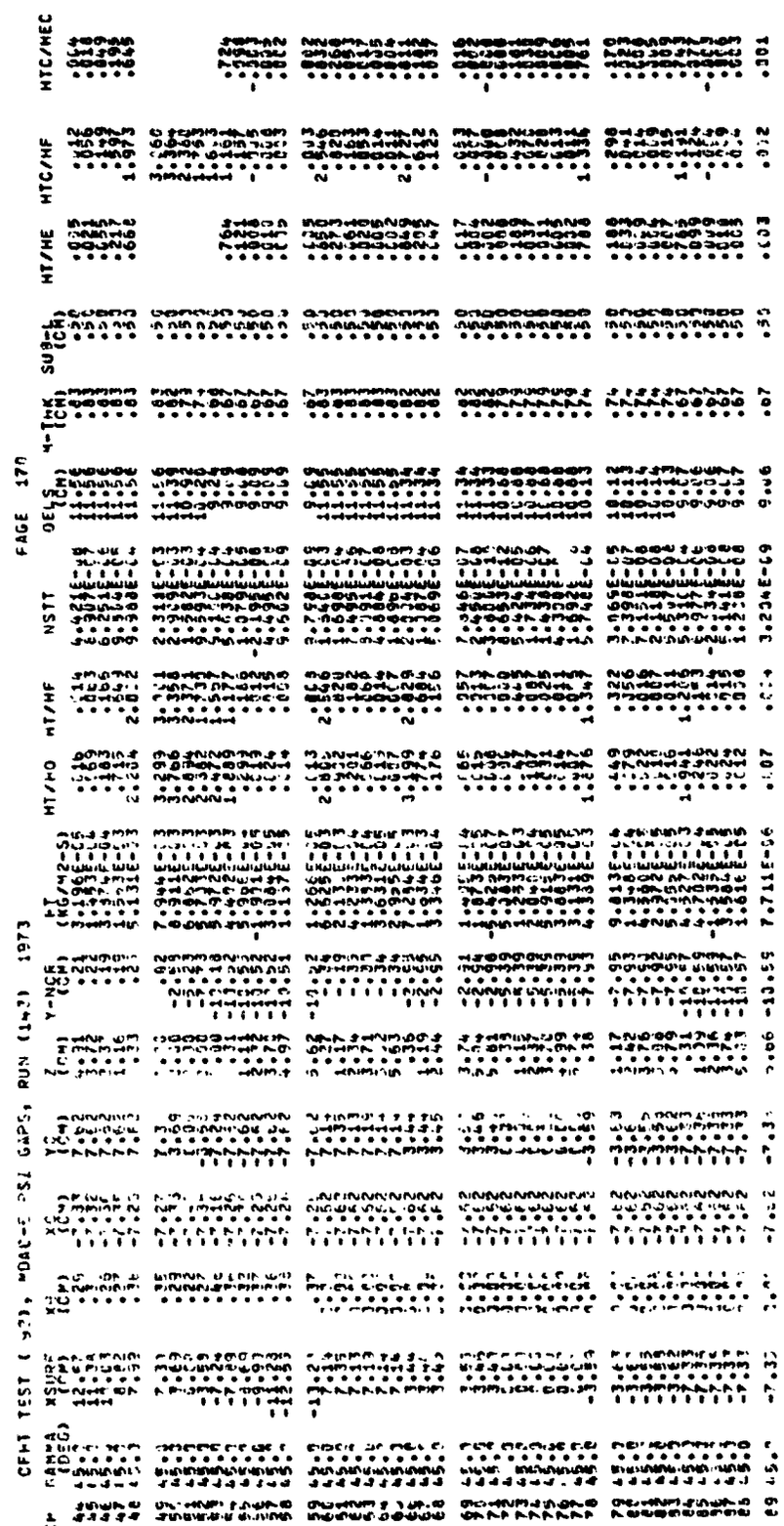
TAN/TT = 6.195 FOR HT/HO
XSURF = SURFACE DISTANCE
(FLOW DIRECTION)
HT/HF, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HE, GAP HEATING (CONDUCTION CORRECTED) HT/HE
HTC/HE, CONDUCTION CORRECTED HT/HE

TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE CENTER
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

CN	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	H-TWK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/NEC
1	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
2	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
3	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
4	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
5	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
6	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
7	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
8	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
9	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
10	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
11	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
12	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
13	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
14	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
15	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
16	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
17	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
18	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
19	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
20	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
21	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
22	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
23	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
24	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000
25	0.0	-3.556	2.794	2.794	0.000	0.000	0.000	2.750E-01	1.000	1.000	2.000	1.111	2.000	2.000	1.000	1.000	1.000

3.4-28F



CFMT TEST (921), MDAC-E RSI GAPS, RUN (27) 1973

MACH = 10.000 RE = 1.8225E-04 (1/FT) T1 = 5.1900E+03(K)
REYNOLDS NO. = 3.3979E+06 T2 = 4.4711E+03(K)
PRESSURE = 3.2739E+02 (N/M2-4) T3 = 1.4129E+03(K)
RHO = 2.3361E-04(KG/M3-4) (RHO V)1 = 1.4129 (CM) (KG/M2-S)
STEP = 30.0000(IC4) CONF =IN-L GAP =.129 (CM)

TAW/TT =0.895 FOR HT/HO TILE COORDINATES(GAMMA=0.0)
XSURF =SURFACE DISTANCE X= X-COOR. FROM TILE LEADER
(FLOW DIRECTION) YC = Y-COOR. FROM TILE CENTER
HTC/HF, GAP HEATING RATIO(EDGE 1 CORRECTED) RATIO TO FLAT PLATE
HTC/HO, CONDUCTION CORRECTED HT/HE

SPECIFIC HEAT CORRECTED

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSIT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
00	0.00	0.00	7.62	7.62	7.62	2.79	7.62	5.5685E-05	.691	.818	6.1356E-09	13.41	.76	.50	.851	.818	.823
01	0.00	0.85	7.62	7.62	7.62	2.79	7.62	5.5685E-05	.691	.818	6.1356E-09	13.41	.76	.50	.851	.818	.823
02	0.00	3.81	11.42	7.62	7.62	2.79	7.62	5.5685E-05	.691	.818	6.1356E-09	13.41	.76	.50	.851	.818	.823
03	0.00	6.0	13.0	7.62	7.62	2.79	7.62	5.5685E-05	.691	.818	6.1356E-09	13.41	.76	.50	.851	.818	.823

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CFHT TEST (92), MJSC-L FSI GAPS, RUN (27) 1973 PAGE 172

CM	GAMMA (DEG)	XSURF (CM)	XP (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	CELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
45	[illegible]	7.32	14.56	7.32	7.62	3.72	7.62	9.321E-05	.033	.032	1.348E-09	10.41	.76	.50	.032	.093	.906
46	[illegible]	7.35	14.58	7.35	7.62	2.37	7.62	-1.344E-05	.001	.001	-2.176E-09	10.41	.76	.50	.012	-.036	-.011
47	[illegible]	7.30	14.87	7.75	7.62	1.15	7.62	8.31 E-05	.146	.136	2.926E-07	10.41	.76	.50	.265	.127	.049
48	[illegible]	7.25	14.84	7.25	7.62	.33	7.62	8.51 E-04	.361	.282	2.346E-05	10.41	.76	.50	.508	.281	.501
49	[illegible]	7.27	14.89	7.27	7.3	.05	7.31	1.678E-03	.711	.562	9.247E-05	10.91	.75	.50		.292	
50	0.0	7.37	14.95	7.37	3.69	0.00	3.69	1.595E-03	.675	.592	9.228E-05	11.31	.82	.50		.592	
51	0.0	7.43	15.02	7.4	0.0	.04	0.00	1.495E-03	.633	.576	8.416E-05	11.56	.83	.50		.576	
52	0.0	7.53	15.21	7.55	-3.59	.84	-3.58	1.653E-03	.730	.611	9.852E-05	11.24	.81	.50		.611	
53	0.0	7.15	14.74	7.16	-7.24	.90	-7.24	1.714E-03	.726	.540	9.046E-05	10.36	.75	.50		.540	
54	0.0	7.25	14.85	7.26	-7.42	.31	-7.62	1.032E-03	.447	.327	3.326E-05	10.24	.74	.50	.617	.328	.642
55	0.3	7.33	14.92	7.38	-7.62	1.11	-7.62	1.132E-04	.054	.039	4.573E-07	10.24	.74	.50	.074	.037	.068
57	0.9	7.25	14.88	7.26	-7.62	3.73	-7.62	-1.167E-05	.030	.009	-2.013E-11	10.24	.74	.50	.030	-.044	-.047
60	0.3	7.83	15.24	7.62	7.14	.27	7.14	7.905E-04	.333	.269	2.296E-05	10.56	.77	.50	.476	.269	.474
61	0.0	9.75	15.24	7.62	7.35	1.17	7.33	1.139E-04	.048	.038	4.395E-07	10.50	.76	.50	.067	.037	.066
65	0.0	13.22	15.24	7.62	7.14	5.63	7.14	5.248E-07	.000	.000	9.366E-12	10.56	.77	.50	.000	.000	.000
66	0.0	7.94	15.24	7.62	3.44	.36	3.44	7.863E-04	.334	.294	2.261E-05	11.35	.82	.50	.494	.294	.496
67	0.0	8.01	15.24	7.62	3.44	1.19	3.44	1.335E-04	.057	.050	6.483E-07	11.35	.82	.50	.084	.058	.084
69	0.0	11.37	15.24	7.62	3.50	3.74	3.50	-5.826E-06	.000	.000	-1.172E-10	11.34	.82	.50	.004	-.002	-.004
70	0.0	12.65	15.24	7.62	3.46	5.04	3.46	4.726E-14	.000	.000	8.126E-26	11.34	.82	.50	.000	.000	.000
71	0.0	13.42	15.24	7.32	3.43	5.81	3.41	3.630E-06	.002	.001	4.719E-10	11.35	.82	.50	.002	.001	.002
73	0.0	8.07	15.24	7.62	0.00	1.15	0.00	1.315E-04	.056	.051	6.509E-07	11.56	.83	.50	.088	.051	.088
77	0.0	13.43	15.24	7.62	0.0	5.74	0.03	1.516E-06	.031	.001	8.656E-11	11.56	.83	.50	.001	.001	.001
78	0.0	9.04	15.24	7.62	-3.59	.38	-3.53	7.911E-04	.335	.292	2.250E-05	11.24	.81	.50	.479	.292	.479
79	0.0	8.62	15.24	7.62	-3.63	1.17	-3.63	1.457E-04	.060	.052	7.134E-07	11.24	.81	.50	.085	.052	.085
84	0.0	7.83	15.24	7.62	-7.33	.31	-7.33	1.074E-03	.452	.335	3.209E-05	10.33	.75	.50	.623	.315	.584
85	0.0	8.53	15.24	7.62	-7.36	1.19	-7.36	6.514E-05	.045	.036	2.385E-07	10.32	.75	.50	.067	.021	.040
86	0.0	9.05	15.24	7.62	-7.35	2.36	-7.36	-1.392E-05	.002	.001	-1.500E-09	10.32	.75	.50	.002	-.014	-.026
88	0.0	12.62	15.24	7.62	-7.33	5.03	-7.33	4.972E-05	.003	.002	1.058E-08	10.33	.73	.54	.004	.016	.029
89	0.0	13.15	15.24	7.62	-7.35	5.66	-7.35	9.275E-05	.015	.011	1.013E-07	10.33	.73	.53	.021	.029	.054

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CFHT TEST (92), MOAC-E RSI GAPS, RUN (28) 1973 PAGE 173

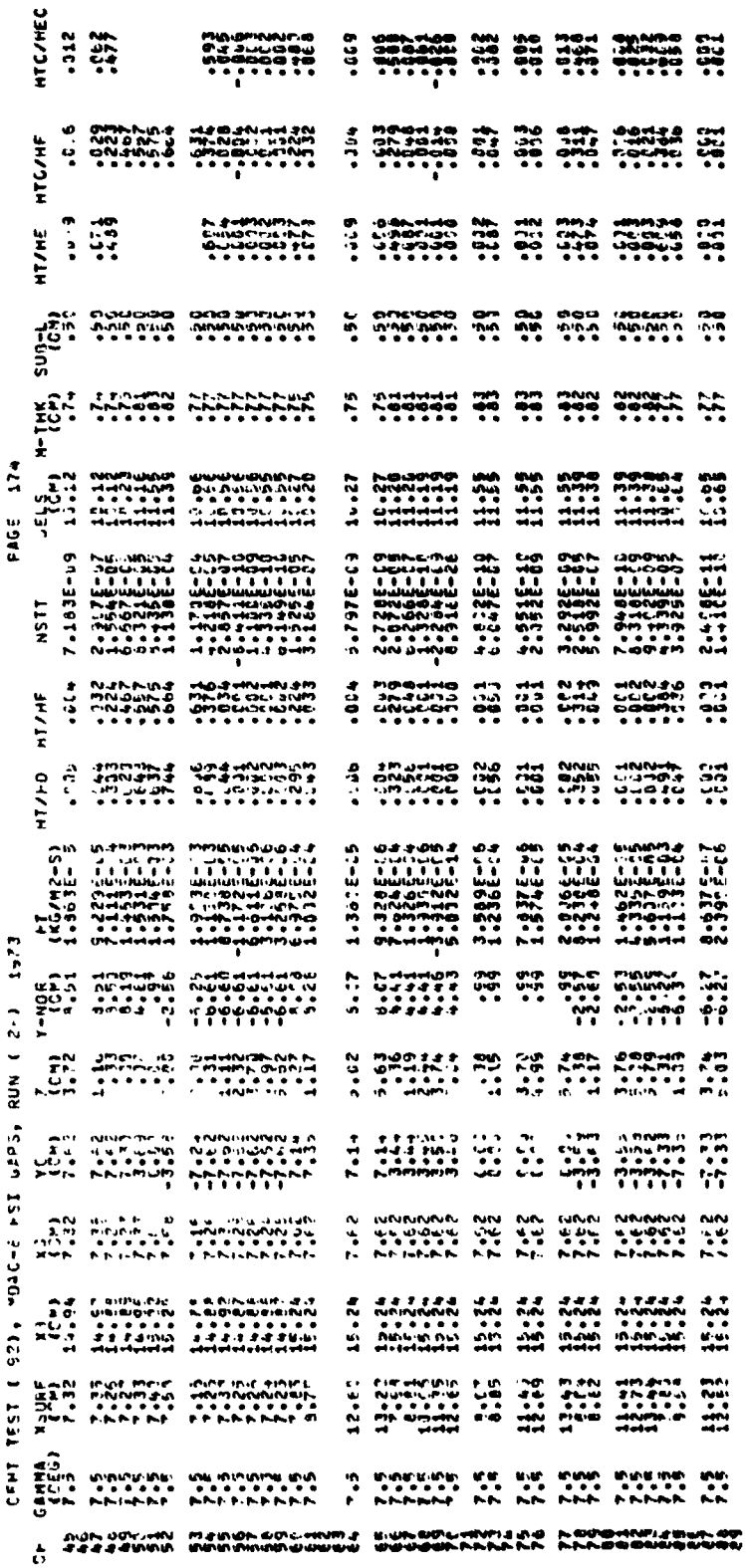
MACH = 10.29* IT = 1.003E+03(K)
RX SQS = 3.330E-11 PI = 5.172E+03(N/M2)
RE/METER = 9.394E+06 TI = 2.714E+01(K)
MO = 2.619E+08(N/M2-K) PO = 9.046E+01(N/M2)
TW = 783.0 (K) (RHO V)1 = 1.993E-01(KG/M2-S)
STEP = 0.098(CM) GAP = .229 (CM)
CONF =IN-L

IAN/TT =0.995 FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 ON 9° DEC) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED

HT/HO, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	N-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
	7.5	3.81	11.42	3.81	7.62	5.04	5.05	-1.447E-05	.031	.031	-1.256E-09	10.28	.75	.50	.881	-.035	-.006
	7.5	3.76	11.38	3.76	7.62	3.72	8.05	-1.128E-05	.781	.001	-1.078E-09	10.28	.75	.50	.001	-.044	-.094
	7.5	3.74	11.32	3.74	-7.62	1.15	-7.87	8.222E-06	.030	.022	1.347E-07	10.42	.76	.50	.023	.028	.021
	7.5	3.67	11.29	3.67	-7.62	5.04	-7.89	8.659E-06	.083	.002	2.843E-09	10.41	.76	.50	.033	.003	.063
	7.5	7.33	14.95	7.33	7.62	5.71	8.51	6.174E-05	.931	.011	5.546E-09	10.12	.74	.50	.872	.013	.041
	7.5	7.33	14.95	7.33	7.62	4.91	8.51	4.283E-05	.302	.012	6.768E-07	10.12	.74	.50	.004	.013	.020

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CFHT TEST (S2), MDAC-E RSI GAPS, RUN (29) 1973 PAGE 175

PACH = 1(.29) TT = 1.002E+03(K)
RX E06 = 3.319E-01 PI = 5.171E+06(N/M2)
RL E06 = 0.298E-02 TI = 9.718E+01(K)
RN/METER = 3.321E+05 PI = 9.826E+01(N/M2)
HO = 2.619E+07(N/M2-K) (RHO V)1 = 1.033E-01(KG/M2-S)
TW = 374.3 (K) GAP = .229 (CM)
STEP = 0.009(CM) CONF =IN-L

IAW/TT =0.895 FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 OR 90 DEG.) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HI (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	15.0	0.01	7.62	0.00	7.62	5.70	7.36	4.915E-05	.001	.001	4.328E-09	10.45	.76	.50	.001	.016	.017
10	15.0	0.01	7.62	0.00	7.62	5.03	7.36	3.639E-05	.001	.001	2.519E-09	10.49	.76	.50	.001	.012	.017
11																	
12	15.0	1.43	7.62	0.00	7.62	2.36	7.36	-8.428E-06	.003	.002	-1.681E-09	10.49	.76	.50	.003	-.013	-.064
13	15.0	4.30	7.62	0.00	7.62	1.14	7.36	-2.357E-05	.021	.014	-3.211E-09	10.49	.76	.50	.028	-.108	-.462
14	15.0	4.30	7.62	0.00	7.62	.33	7.36	-6.912E-06	.021	.014	-3.211E-09	10.49	.76	.50	.028	-.108	-.462
15	15.0	8.57	7.62	0.00	7.62	.29	7.36	-6.120E-06	.098	.065	1.403E-04	10.57	.77	.50		.246	
16	15.0	8.57	7.62	0.00	3.63	0.00	3.81	2.733E-03	1.178	1.036	2.815E-04	11.34	.82	.50		11.046	
17	15.0	8.57	7.62	0.00	0.00	0.00	0.00	2.733E-03	1.158	1.054	2.815E-04	11.34	.82	.50		11.046	
18	15.0	8.57	7.62	0.00	-3.63	-3.42	-7.23	2.877E-03	1.189	1.043	2.853E-04	11.34	.82	.50		11.074	
19	15.0	8.57	7.62	0.00	-7.62	0.00	-7.62	2.719E-03	1.151	.867	2.303E-04	10.43	.76	.50		.867	
20																	
21	15.0	0.01	7.62	0.00	-7.62	.41	-7.36	1.207E-03	.514	.388	4.484E-05	10.32	.75	.50	.446	.378	.436
22	15.0	0.01	7.62	0.00	-7.62	1.17	-7.36	8.356E-05	.036	.027	2.104E-07	10.32	.75	.50	.031	.026	.030
23	15.0	0.01	7.62	0.00	-7.62	2.39	-7.36	8.560E-06	.005	.003	2.020E-09	10.32	.75	.50	.004	.003	.003
24																	
25	15.0	0.01	7.62	0.00	-7.62	5.37	-7.36	9.764E-07	.002	.001	1.196E-10	10.32	.75	.50	.001	.000	.000
26																	
27	15.0	3.75	11.38	3.76	7.62	2.70	8.33	6.276E-05	.008	.006	5.676E-10	10.18	.74	.50	.008	.020	.020
28	15.0	3.81	11.42	3.80	7.62	5.04	8.34	4.644E-05	.001	.008	2.102E-09	10.18	.74	.50	.001	.005	.007
29	15.0	3.76	11.38	3.76	7.62	1.72	8.33	1.577E-05	.002	.002	2.788E-09	10.18	.74	.50	.003	.005	.007
30																	
31	15.0	3.87	11.45	3.87	7.62	1.16	8.35	1.336E-04	.047	.035	3.548E-07	10.17	.74	.50	.052	.032	.046
32	15.0	3.87	11.49	3.87	7.62	.33	8.36	4.171E-03	.466	.349	3.754E-05	10.17	.74	.50	.515	.348	.486
33	15.0	3.79	11.41	3.79	7.24	1.00	7.98	2.211E-03	.936	.715	1.544E-04	11.36	.75	.50		.715	
34																	
35	15.0	3.92	11.56	3.92	3.71	1.08	4.66	2.456E-03	1.043	.894	2.144E-04	11.16	.81	.50		.894	
36	15.0	3.95	11.57	3.95	0.01	.08	1.02	2.451E-03	1.038	.937	2.243E-04	11.35	.83	.50		.937	
37	15.0	3.89	11.51	3.89	-3.63	-2.46	-2.46	2.791E-03	1.181	1.054	2.573E-04	11.46	.82	.50		1.054	
38	15.0	3.74	11.36	3.74	-7.28	-1.08	-6.06	3.063E-03	1.297	1.024	3.162E-04	11.77	.78	.53		1.024	
39	15.0	3.79	11.41	3.79	-7.62	.37	-6.38	1.412E-03	.600	.467	6.446E-05	10.63	.77	.50	.463	.465	.454
40	15.0	3.74	11.36	3.74	-7.62	1.15	-6.16	4.432E-04	.021	.017	7.290E-08	10.62	.77	.50	.016	.015	.017
41	15.0	3.67	11.29	3.67	-7.62	2.35	-5.34	2.326E-05	.013	.010	2.263E-08	10.62	.77	.50	.010	.008	.007
42																	
43	15.0	3.67	11.29	3.67	-7.62	5.04	-6.41	-3.376E-06	.003	.002	-7.371E-10	10.61	.77	.50	.002	-.001	-.001
44																	
45	15.0	7.33	14.95	7.33	7.62	4.91	9.26	-7.269E-07	.003	.002	-1.344E-10	9.65	.72	.50	.005	-.000	-.001

CENT TEST (42), MDAC-E RSI GAPS, RUN (23) 1973

CP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XS (CM)	YS (CM)	Z (CM)	Y-NOSE (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUBL (CAL)	HT/HE	HTG/HF	HTG/SEC
45	15.0	7.32	14.32	7.62	7.62	1.16	9.26	1.054E-04	.447	.033	3.429E-07	9.65	.72	.0	.685	.332	.283
46																	
47	15.2	7.32	14.32	7.62	7.62	1.16	9.24	6.324E-04	.272	.155	1.289E-05	9.65	.72	.0	.499	.196	.466
48	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0		.196	
49	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0		.196	
50	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
51	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
52	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
53	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
54	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
55	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
56	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
57	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
58	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
59	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
60	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
61	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
62	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
63	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
64	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
65	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
66	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
67	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
68	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
69	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
70	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
71	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
72	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
73	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
74	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
75	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
76	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
77	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
78	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
79	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
80	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
81	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
82	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
83	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
84	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
85	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
86	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
87	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
88	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664
89	15.2	7.32	14.32	7.62	7.62	.33	9.23	1.139E-03	.1551	.1558	1.298E-05	9.65	.72	.0	.647	.196	.664

CFNT TEST (92), MDAC-E PSI GAPS, RUN (30) 1973 PAGE 177

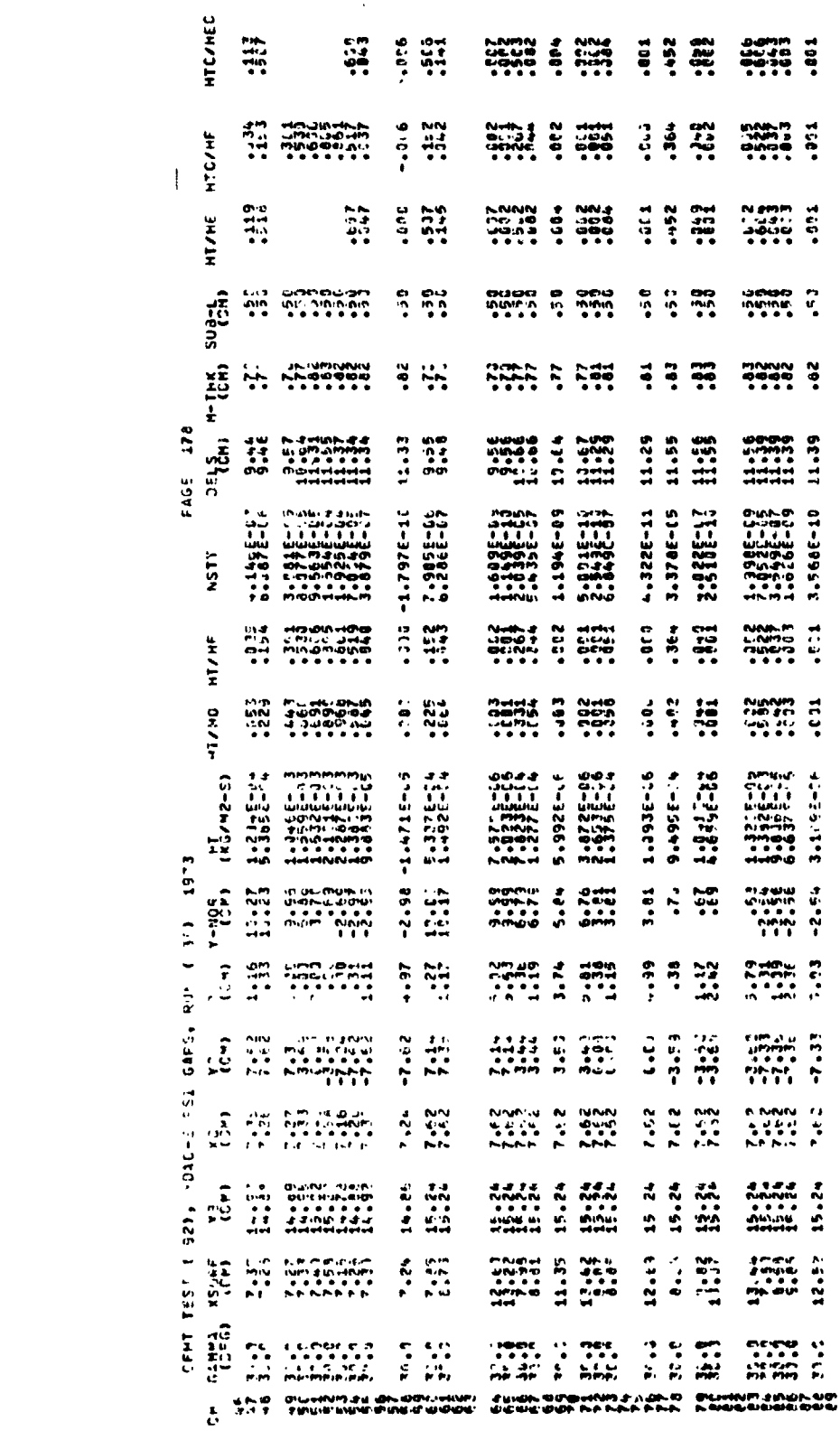
MACH = 10.290 TT = 1.003E+03(K)
RX EQS = 3.311E-01 PI = 5.171E+06(N/M2)
QL EQS = 9.270E-12 T1 = 4.725E+01(K)
RE/METER = 3.259E+06 P1 = 9.823E+01(N/M2)
HO = 2.615E+00(W/M2-K) (RHO V)1 = 1.925E+01(KG/M2-S)
TW = 304.3 (K) GAP = .229 (CM)
STEP = 0.000(CM) CONF =IN-L

TAW/TT =0.895 FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 OR 90 DEG) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CP)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	30.0	0.00	7.62	0.00	7.62	5.78	6.60	-2.032E-05	.003	.002	-4.173E-09	10.71	.78	.50	.003	-.007	-.011
10	30.0	0.61	7.62	0.00	7.62	5.03	6.67	-2.383E-05	.001	.001	-2.253E-09	10.71	.78	.50	.002	-.007	-.011
13	30.0	1.03	7.62	0.00	7.62	1.14	6.63	7.944E-05	.038	.031	2.358E-07	10.71	.78	.50	.048	.027	.041
14	30.0	0.00	7.62	0.00	7.52	.33	6.63	8.654E-04	.368	.298	2.523E-05	10.71	.78	.50	.462	.297	.456
15	30.0	0.00	7.62	0.00	7.29	0.00	6.32	1.880E-03	.796	.652	1.198E-04	10.78	.78	.50		.652	
16	30.0	0.00	7.62	0.00	3.63	0.00	3.15	2.797E-03	1.184	1.047	2.863E-04	11.30	.82	.50		1.047	
17	30.0	0.00	7.62	0.00	0.00	0.00	0.03	2.819E-03	1.189	1.082	2.972E-04	11.56	.83	.50		1.082	
18	30.0	0.00	7.62	0.00	-3.54	0.00	-3.67	2.848E-03	1.195	1.054	2.693E-04	11.32	.81	.50		1.049	
19	30.0	0.00	7.62	0.00	-7.27	0.00	-6.29	2.766E-03	1.171	.915	2.474E-04	10.64	.77	.50		.915	
20	30.0	0.00	7.62	0.00	-7.62	.41	-6.63	1.241E-03	.529	.407	4.939E-05	10.56	.77	.50	.562	.404	.442
21	30.0	0.00	7.62	0.00	-7.62	1.17	-6.63	8.013E-05	.039	.030	2.604E-07	10.56	.77	.50	.034	.029	.031
22	30.0	0.00	7.62	0.00	-7.62	2.39	-6.60	5.515E-06	.003	.003	1.448E-09	10.56	.77	.50	.003	.002	.002
25	30.0	0.00	7.62	0.00	-7.62	5.73	-6.63	9.563E-06	.003	.002	2.064E-09	10.56	.77	.50	.002	.003	.003
27	30.0	3.80	11.42	3.80	7.62	5.04	6.50	-7.876E-06	.001	.001	-4.935E-11	10.12	.74	[illegible]	.001	-.002	-.004
30	30.0	3.83	11.45	3.83	7.62	1.16	6.51	1.145E-04	.351	.037	4.193E-07	10.12	.74	[illegible]	.046	.036	.061
31	30.0	3.87	11.49	3.87	7.62	.33	6.53	9.135E-04	.389	.287	2.561E-05	10.11	.74	[illegible]	.502	.286	.489
32	30.0	3.79	11.41	3.79	7.24	0.00	0.17	1.828E-03	.774	.584	1.844E-04	10.24	.75	.50		.584	
33	30.0	3.92	11.54	3.92	3.71	0.00	5.17	2.479E-03	1.049	.898	2.156E-04	11.45	.80	.50		.898	
34	30.0	3.93	11.57	3.95	0.01	0.00	1.98	2.463E-03	1.043	.934	2.249E-04	11.58	.83	.58		.934	
35	30.0	3.83	11.51	3.89	-3.59	0.00	-1.17	2.933E-03	1.242	1.120	3.211E-04	11.51	.83	.50		1.120	
36	30.0	3.74	11.36	3.74	-7.28	0.03	-4.43	3.124E-03	1.322	1.120	3.418E-04	11.09	.83	.56		1.121	
37	30.0	3.79	11.41	3.79	-7.62	.37	-4.73	1.416E-03	.605	.505	6.983E-05	11.03	.80	.53	.456	.562	.448
38	30.0	3.74	11.36	3.74	-7.62	1.15	-4.73	6.857E-05	.028	.024	1.403E-07	11.03	.60	.50	.021	.021	.019
39	30.0	3.83	11.42	3.80	-7.62	2.35	-4.73	2.382E-05	.013	.011	2.609E-08	11.03	.40	.50	.010	.308	.008
41	30.0	3.67	11.29	3.67	-7.62	3.34	-4.77	2.815E-05	.002	.002	4.825E-09	11.02	.83	.50	.002	.310	.009
42	30.0	3.62	11.24	3.62	-7.62	5.68	-4.79	2.895E-06	.001	.001	1.517E-10	11.02	.79	.50	.001	.001	.001
43	30.0	7.35	16.37	7.35	7.62	5.79	13.27	-4.344E-06	.001	.001	-3.275E-10	9.44	.70	.50	.032	-.002	-.006

3.4-59

ORIGINAL PAGE IS
OF POOR QUALITY



CFHT TEST (92), MDAC-E RSI GAPS, RUN (44) 1973

MACH	= 10.290	TT	= 1.022E+03(K)
RX EDGE	= 3.197E-01	PI	= 5.179E+06(N/M2)
RL EDGE	= 7.994E-02	T1	= 4.825E+01(K)
RE/METER	= 3.147E+06	P1	= 9.813E+01(N/M2)
HO	= 2.619E+00(W/M2-K)	(RHO V)1	= 1.017E+01(KG/M2-S)
TW	= 298.3 (K)	GAP	= .457 (CM)
STEP	= 0.000(CM)	CONF	=IN-L

TAW/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)

TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

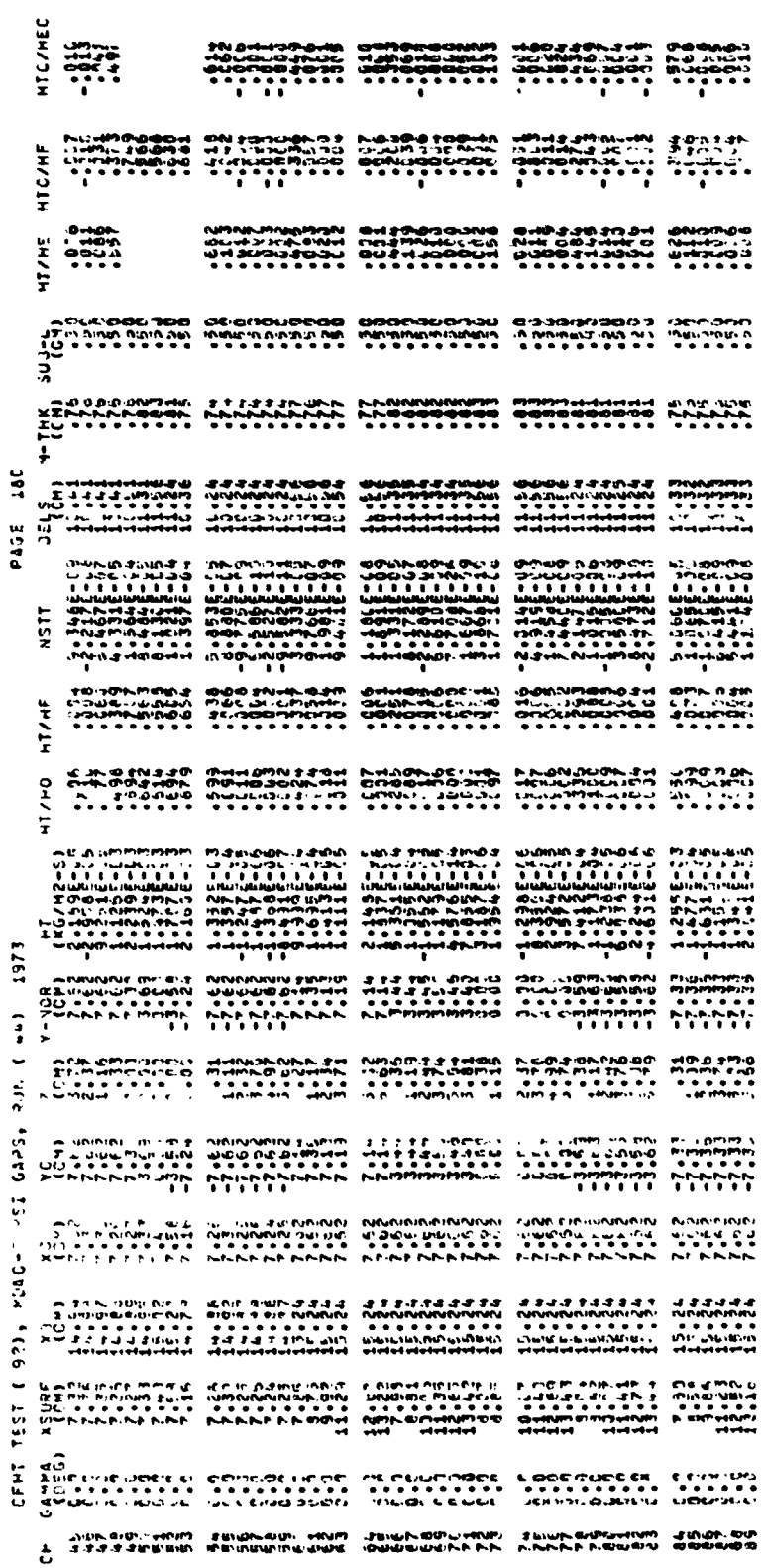
SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	0.0	0.07	7.62	0.00	7.62	5.70	7.62	7.377E-05	.008	.006	4.685E-08	10.41	.76	.50	.006	.024	.023
10	0.0	0.03	7.62	0.00	7.62	5.63	7.62	4.548E-05	.005	.004	1.794E-08	10.41	.76	.50	.004	.015	.014
11																	
12	0.0	0.00	7.62	0.00	7.62	2.36	7.62	-1.526E-05	.015	.011	-1.723E-08	10.41	.76	.50	.011	-.005	-.005
13	0.0	0.03	7.62	0.00	7.62	1.14	7.62	1.059E-04	.085	.066	6.920E-07	10.41	.76	.50	.064	.038	.034
14	0.0	0.03	7.62	0.00	7.62	.33	7.62	1.677E-03	.734	.574	9.509E-05	10.41	.76	.50	.558	.555	.531
15	0.0	7.99	7.62	0.00	7.29	0.00	7.29	3.124E-03	1.315	1.040	3.218E-04	10.51	.76	.50		1.046	
16	0.0	0.03	7.62	0.00	3.63	0.00	3.63	3.027E-03	1.279	1.122	3.357E-04	11.32	.82	.50		1.124	
17	0.0	0.03	7.62	0.00	0.00	0.00	0.00	2.872E-03	1.226	1.114	3.163E-04	11.36	.83	.50		1.137	
18	0.0	0.03	7.62	0.00	-3.54	0.00	-3.54	2.985E-03	1.247	1.089	3.105E-04	11.28	.81	.50		1.067	
19	0.0	0.03	7.62	0.00	-7.27	0.00	-7.27	3.197E-03	1.340	1.063	3.169E-04	10.35	.75	.50		1.007	
20	0.0	0.03	7.62	0.00	-7.62	.41	-7.62	1.553E-03	.683	.499	7.661E-05	10.24	.74	.50	.506	.481	.478
21	0.0	0.03	7.62	0.00	-7.62	1.17	-7.62	8.017E-05	.079	.056	5.060E-07	10.24	.74	.50	.059	.027	.027
22	0.0	0.00	7.62	0.00	-7.62	2.39	-7.62	-9.113E-06	.013	.010	-6.602E-09	10.24	.74	.50	.010	-.003	-.003
23	0.0	0.03	7.62	0.00	-7.62	3.70	-7.62	1.634E-05	.008	.006	8.770E-09	10.24	.74	.50	.006	.005	.005
24	0.0	0.03	7.62	0.00	-7.62	3.07	-7.62	3.543E-05	.009	.006	2.231E-08	10.24	.74	.50	.006	.011	.011
25	0.0	0.03	7.62	0.00	-7.62	5.73	-7.62	2.759E-05	.002	.001	3.937E-09	10.24	.74	.50	.001	.009	.009
26	0.0	3.74	11.39	3.76	7.62	5.70	7.62	8.331E-06	.001	.001	4.087E-10	10.41	.76	.50	.001	.003	.002
27	0.0	3.83	11.62	3.83	7.62	3.04	7.62	1.980E-05	.008	.006	1.228E-08	10.41	.76	.50	.005	.007	.005
28	0.0	3.75	11.38	3.76	7.62	3.72	7.62	5.426E-06	.007	.005	2.620E-09	10.41	.76	.50	.005	.002	.002
29	0.0	3.81	11.43	3.81	7.62	2.44	7.62	-1.736E-05	.016	.012	-2.187E-08	10.41	.76	.50	.011	-.006	-.005
30	0.0	3.83	11.45	3.83	7.62	1.16	7.62	1.737E-04	.118	.086	1.470E-06	10.41	.76	.50	.074	.057	.044
31	0.0	3.87	11.49	3.87	7.62	.33	7.62	2.153E-03	.931	.728	1.548E-04	10.41	.76	.50	.631	.712	.599
32	0.0	3.79	11.41	3.79	7.24	0.00	7.24	3.567E-03	1.476	1.169	4.122E-04	10.53	.77	.50		1.196	
33	0.0	3.92	11.54	3.92	3.71	0.00	3.71	2.691E-03	1.136	.996	2.648E-04	11.31	.82	.50		.998	
34	0.0	3.93	11.57	3.95	0.00	0.00	0.00	2.572E-03	1.087	.999	2.517E-04	11.56	.83	.50		.991	
35	0.0	3.89	11.51	3.89	-3.53	0.00	-3.59	2.763E-03	1.166	1.017	2.778E-04	11.24	.81	.50		1.021	
36	0.0	3.74	11.36	3.74	-7.25	0.00	-7.28	3.419E-03	1.418	1.054	3.563E-04	10.35	.75	.50		1.076	
37	0.0	3.79	11.61	3.70	-7.62	.37	-7.62	1.907E-03	.790	.578	1.032E-04	10.24	.74	.50	.557	.559	.520
38	0.0	3.76	11.32	3.77	-7.62	1.15	-7.62	9.374E-05	.081	.059	5.496E-07	10.24	.74	.50	.057	.029	.027
39	0.0	3.81	11.43	3.81	-7.62	2.15	-7.62	-8.951E-06	.019	.011	-1.300E-08	10.24	.74	.50	.011	-.003	-.003
40	0.0	3.81	11.42	3.61	-7.62	3.62	-7.62	1.645E-05	.004	.003	5.136E-09	10.24	.74	.50	.003	.005	.005
41	0.0	3.87	11.29	3.67	-7.62	3.74	-7.62	-7.324E-06	.000	.000	-1.895E-10	10.24	.74	.50	.000	-.002	-.002
42	0.0	3.62	11.24	3.62	-7.62	5.68	-7.62	3.243E-05	.002	.001	3.844E-09	10.24	.74	.50	.001	.018	.009
43																	
44	0.0	7.31	14.95	7.33	7.62	-.91	7.62	6.659E-05	.032	.031	7.736E-09	10.41	.76	.50	.032	.022	.029

3.4- 87

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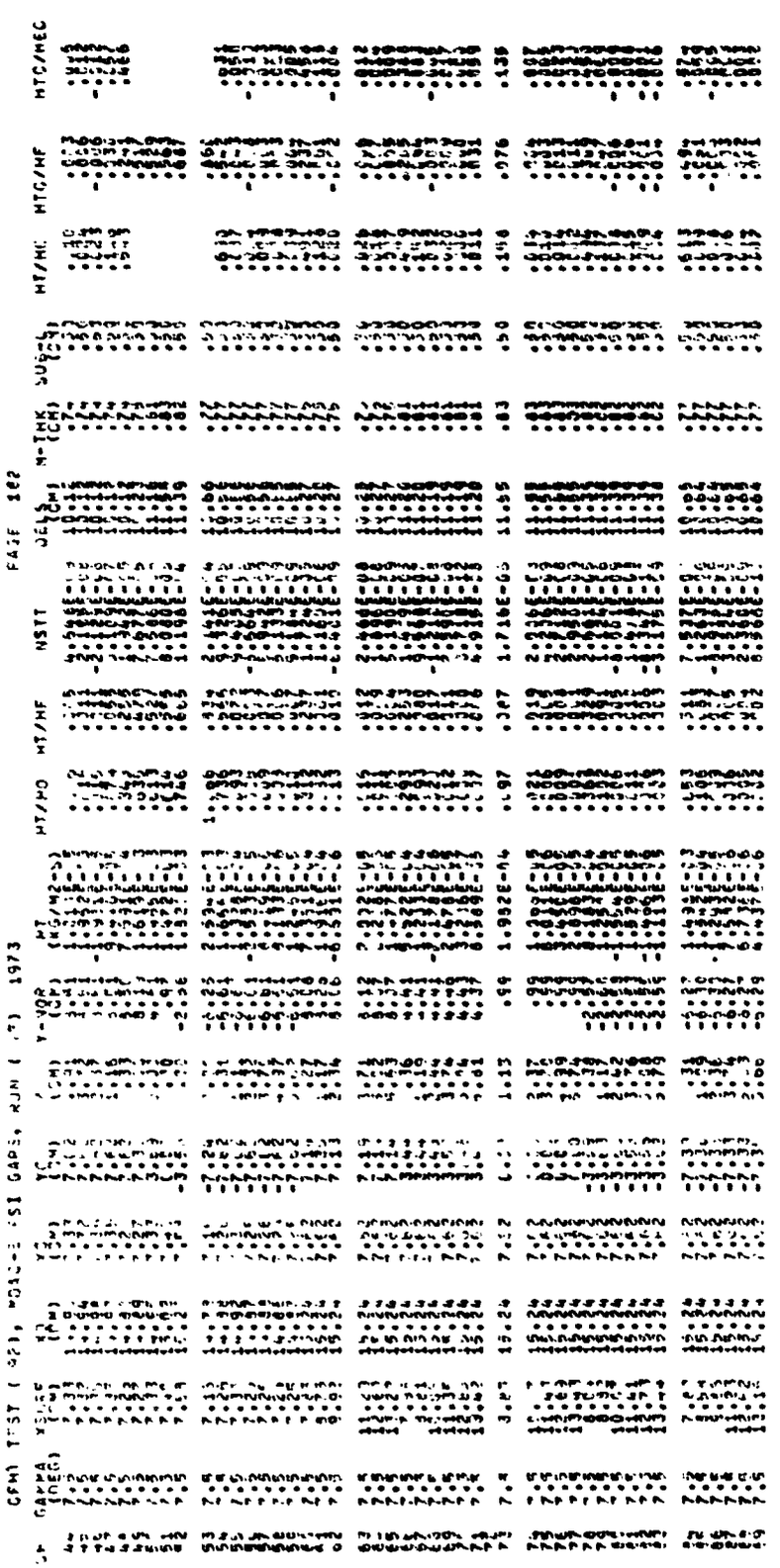


CFNT TEST (92), PDAC-E RSI GAPS, RUN (45) 1973 PAGE 181

SPECIFIC HEAT CORRECTED

CM	GAMMA (DEG)	XSURF (CM)	X3 (CM)	XG (CM)	YC (CM)	Z (CM)	Y-NOSE (CM)	HT (BTU/FT2-S)	HT/HO	HT/HF	NSTT	DELTA (CM)	M-TANK (CM)	SUBEL (CM)	HT/WE	HTC/HF	HTC/HEC
43	7.5	7.31	14.97	7.35	7.62	3.73	9.51	1.6+0E-05	.006	.004	1.03E-09	10.12	.7+	.38	.054	.035	.010

3.4- 89



CFHT TEST (92), MDAC-E RSI GAPS, RUN (46) 1973.

MACH = 10.298 TI = 5.132E+03 (K)
RX ERS = 3.114E-31 PI = 5.133E+03 (N/M2)
RI ERS = 7.942E-33 TI = 4.133E+03 (K)
RE/METER = 3.942E+06 RHO V11 = 1.133E+03 (KG/M2-S)
MO = 29.613 (K) GAP = 1.667 (CM)
TW = 29.613 (K) CONF = IN-L
STEP = 0.339 (C4)

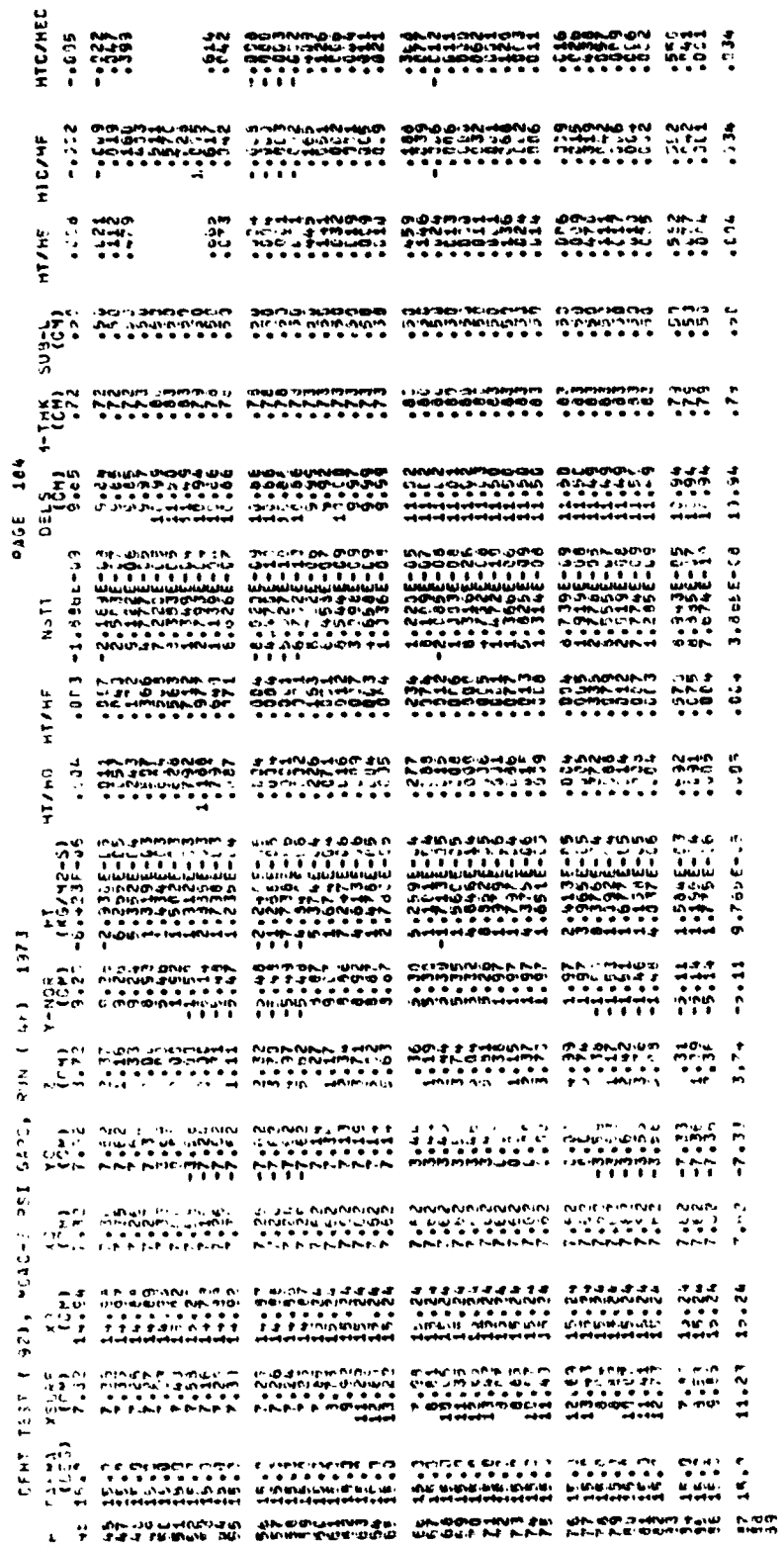
TAW/TT =0.895 FCR HT/HO
XSURF =SURFACE DISTANCE (FLOW ORIENTED) FROM EDGE AT TILE CENTER
HT/HE, GAP HEATING (INCLUDES CORRECTED HT/HE
HTC/HE, CONDUCTION (CORRECTED HT/HE

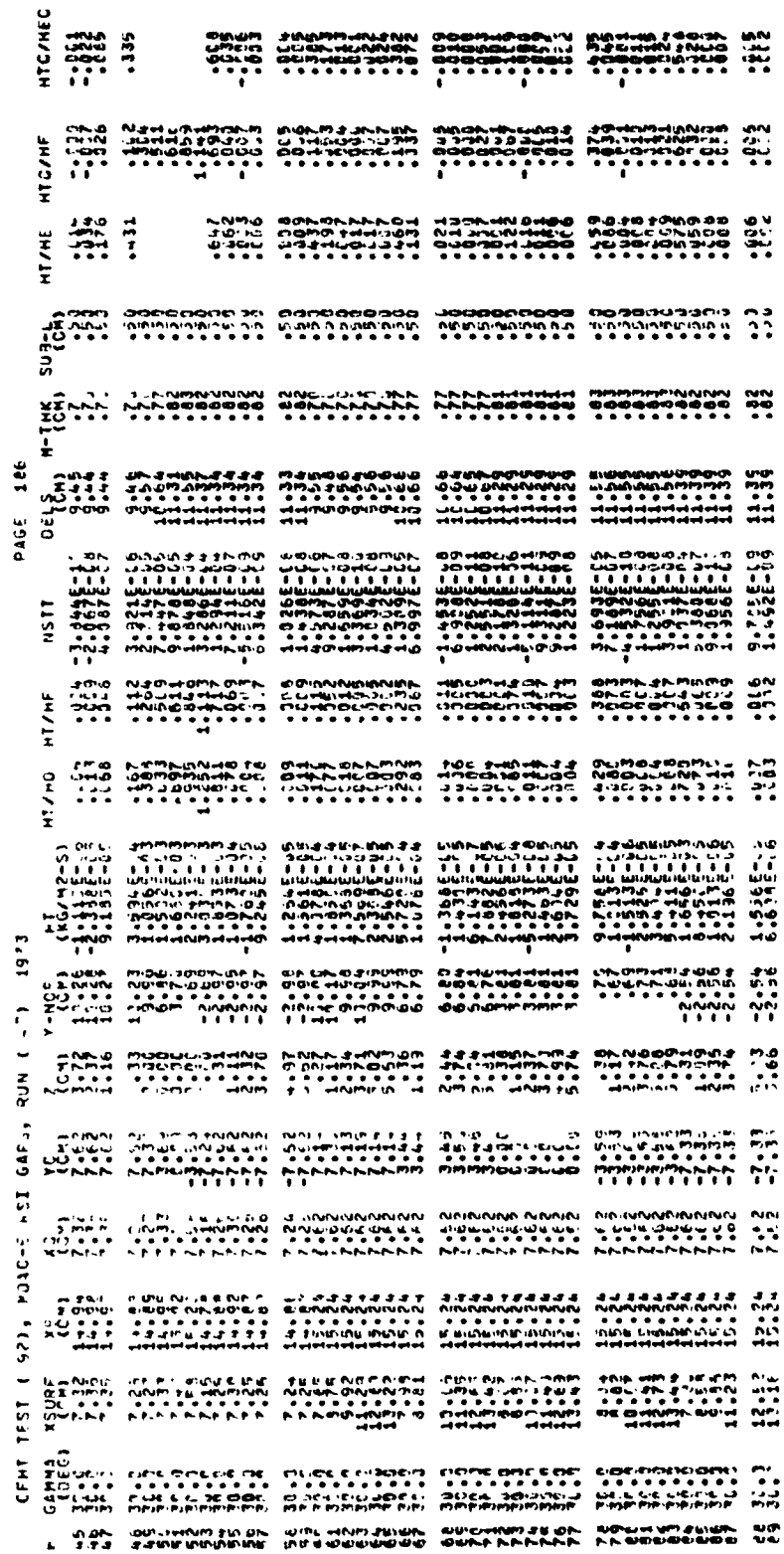
TILE COORDINATES(GAMMA=C4)
YC =Y-COOR. FROM TILE CENTER
XC =X-COOR. FROM TILE CENTER
YCC =Y-COOR. FROM TILE TOP
XCC =X-COOR. FROM TILE CENTER RATIOED TO FLAT PLATE

SPECIFIC HEAT CORRECTED

C4	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	MT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	W-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
.046	15.0	.000	7.62	-7.62	.762	3.76	-7.36	4.895E-05	.810	.807	3.472E-06	10.32	.75	.50	.686	.238	.814
.092	15.0	.000	7.62	-7.62	.762	5.73	-7.36	1.410E-04	.801	.801	1.112E-06	17.72	.75	.50	.671	.044	.839

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CFHT TEST (92), MDAC-E RSI GAPS, RUN (62) 1973 PAGE 187

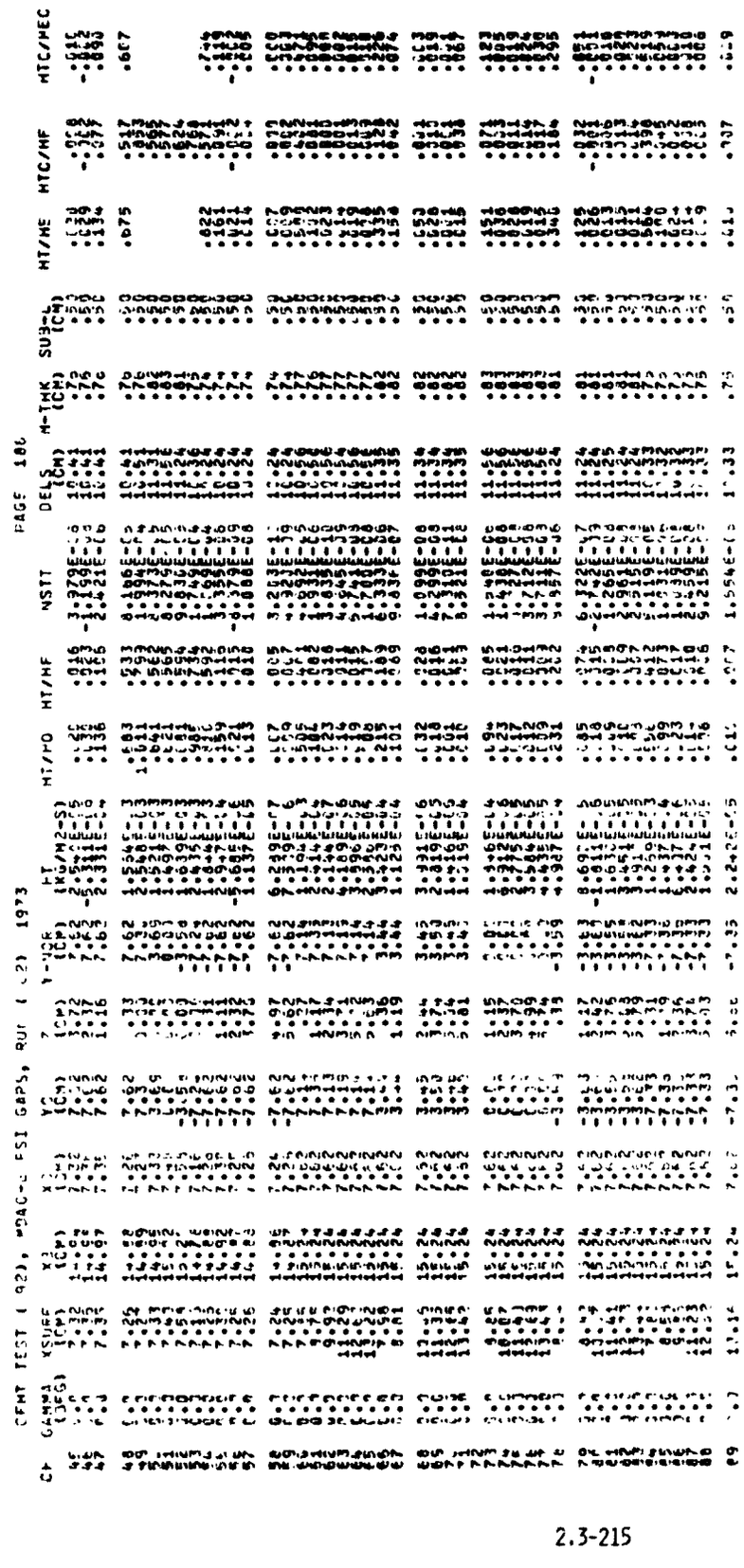
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MACH      = 10.29        TT          = 1.803E+03(K)
RX EF6    = 3.270E-01    PI          = 5.184E+06(N/M2)
RL EF6    = 8.195E-02    TI          = 4.757E+01(K)
RE/METER  = 3.224E+12    PI          = 9.660E+01(N/M2)
HO        = 2.619E+00(W/M2-K)  (RHO V)1 = 1.026E+01(KG/M2-S)
TW        = 297.7 (K)    GAP         = .437 (CM)
STEP      = .254(CM)     CONF        =IN-L

 TAN/TT -0.895 FOR HT/HO          TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE              XB = X-COOR. FROM TILE L.E.
       (FLOW DIRECTION)             XC = X-COOR. FROM TILE CENTER
       (0.0 OR 90 DEG )             YC = Y-COOR. FROM TILE CENTER      SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE
```

CP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	N-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	0.0	0.00	7.62	0.00	7.62	5.78	7.62	1.398E-05	.018	.014	1.927E-08	10.41	.76	.50	.014	.005	.005
10	0.0	0.00	7.62	0.00	7.62	5.03	7.62	1.859E-05	.019	.015	2.724E-08	10.41	.76	.50	.015	.006	.006
11	0.0	0.00	7.62	0.00	7.62	3.74	7.62	1.830E-05	.017	.014	2.435E-08	10.41	.76	.50	.014	.006	.006
12	0.0	0.00	7.62	0.00	7.62	2.36	7.62	1.347E-05	.030	.023	3.840E-08	10.41	.76	.50	.024	.004	.005
13	0.0	0.00	7.62	0.00	7.62	1.14	7.62	1.184E-04	.088	.069	8.811E-07	10.41	.76	.50	.071	.039	.048
14	0.0	0.00	7.62	0.00	7.62	.33	7.62	1.533E-03	.660	.516	7.580E-05	10.41	.76	.50	.531	.497	.508
15	0.0	0.00	7.62	0.00	7.23	0.00	7.23	2.921E-03	1.243	.983	2.611E-04	10.41	.76	.50		.978	
16	0.0	0.00	7.62	0.00	3.63	0.00	3.63	3.186E-03	1.345	1.100	3.608E-04	11.32	.82	.53		1.103	
17	0.0	0.00	7.62	0.00	0.00	0.00	0.00	3.051E-03	1.305	1.188	3.549E-04	11.56	.83	.50		1.175	
18	0.0	0.00	7.62	0.00	-3.54	0.00	-3.54	3.163E-03	1.333	1.164	3.497E-04	11.25	.81	.50		1.135	
19	0.0	0.00	7.62	0.00	-7.27	0.00	-7.27	2.833E-03	1.227	.913	2.933E-04	10.35	.75	.50		.892	
21	0.0	0.00	7.62	0.00	-7.62	1.17	-7.62	1.553E-04	.086	.063	9.580E-07	10.24	.74	.50	.070	.040	.054
22	0.0	0.00	7.62	0.00	-7.62	2.39	-7.62	1.763E-05	.023	.017	1.900E-08	10.24	.74	.50	.019	.004	.004
23	0.0	0.00	7.62	0.00	-7.62	3.78	-7.62	2.763E-05	.015	.011	2.953E-08	10.24	.74	.50	.012	.009	.010
24	0.0	0.00	7.62	0.00	-7.62	5.07	-7.62	3.611E-05	.012	.009	3.228E-08	10.24	.74	.50	.010	.011	.013
25	0.0	0.00	7.62	0.00	-7.62	5.73	-7.62	4.714E-05	.014	.010	4.764E-08	10.24	.74	.50	.012	.015	.016
26	0.0	3.73	11.38	3.76	7.62	5.70	7.62	1.924E-05	.011	.008	1.558E-08	10.41	.76	.50	.007	.006	.008
27	0.0	3.81	11.42	3.80	7.62	5.04	7.62	2.395E-05	.014	.011	2.652E-08	10.41	.76	.50	.010	.006	.007
28	0.0	3.76	11.38	3.76	7.62	3.72	7.62	-1.231E-06	.008	.006	-7.239E-11	10.41	.76	.50	.005	-.010	-.008
29	0.0	3.81	11.43	3.81	7.62	2.44	7.62	-1.919E-05	.018	.014	-2.587E-08	10.41	.76	.50	.012	-.006	-.005
30	0.0	3.93	11.45	3.93	7.62	1.16	7.62	2.176E-04	.123	.096	1.980E-06	10.41	.76	.50	.084	.070	.059
31	0.0	3.97	11.49	3.97	7.62	.33	7.62	2.146E-03	.928	.725	1.522E-04	10.41	.76	.53	.635	.710	.601
32	0.0	3.79	11.41	3.79	7.24	0.00	7.24	3.523E-03	1.461	1.157	3.991E-04	10.63	.77	.53		1.161	
33	0.0	3.92	11.55	3.92	3.71	0.00	3.71	2.731E-03	1.154	1.011	2.704E-04	11.31	.82	.50		1.018	
34	0.0	3.95	11.57	3.95	0.00	0.00	0.00	2.674E-03	1.132	1.030	2.697E-04	11.56	.83	.50		1.038	
35	0.0	3.83	11.51	3.89	-3.59	0.00	-3.59	2.803E-03	1.184	1.033	2.832E-04	11.24	.81	.50		1.034	
36	0.0	3.74	11.36	3.74	-7.23	0.00	-7.28	3.310E-03	1.377	1.024	3.318E-04	10.35	.75	.53		1.042	
37	0.0	3.79	11.41	3.79	-7.62	.37	-7.62	1.390E-03	.807	.590	1.868E-04	10.24	.74	.53	.586	.572	.549
38	0.0	3.74	11.36	3.74	-7.62	1.15	-7.62	1.478E-04	.100	.073	1.062E-06	10.24	.74	.50	.073	.046	.044
39	0.0	3.81	11.42	3.81	-7.62	2.35	-7.62	6.224E-06	.024	.017	1.081E-08	10.24	.74	.50	.017	.002	.002
40	0.0	3.83	11.42	3.83	-7.62	3.62	-7.62	3.860E-05	.016	.012	4.453E-08	10.24	.74	.50	.012	.012	.012
41	0.0	3.67	11.29	3.67	-7.62	5.04	-7.62	7.195E-06	.010	.007	5.247E-09	10.24	.74	.50	.007	.002	.002
42	0.0	3.62	11.24	3.62	-7.62	5.93	-7.62	3.079E-05	.007	.005	1.618E-08	10.24	.74	.50	.005	.010	.009
43	0.0	7.35	14.97	7.35	7.62	5.73	7.62	2.734E-05	.039	.007	1.815E-08	10.41	.76	.53	.019	.009	.010
44	0.0	7.33	14.95	7.33	7.62	4.91	7.62	7.257E-06	.005	.004	2.988E-09	10.41	.76	.53	.005	.002	.003

3.4-123

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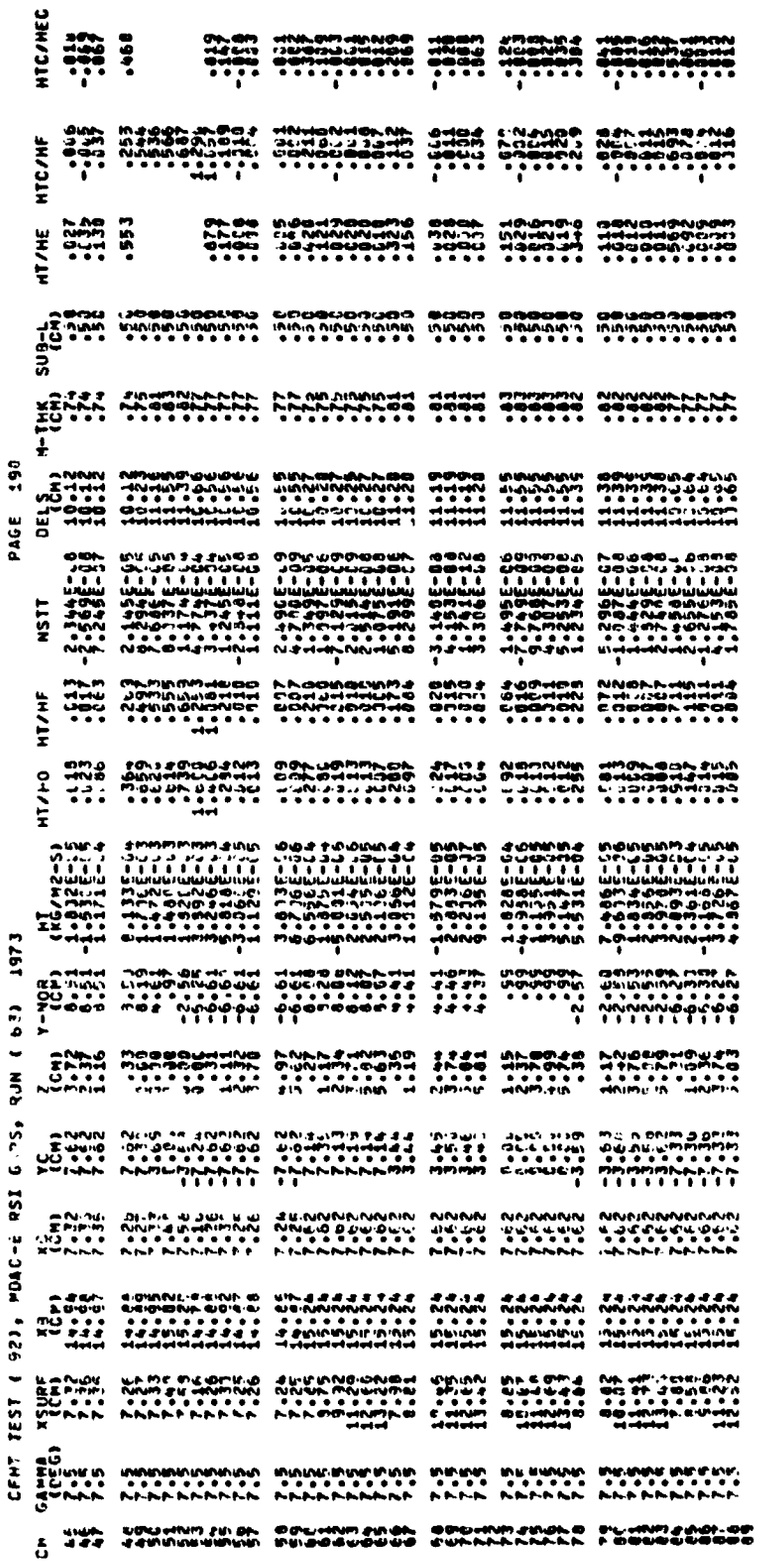


PAGE 189

CFHT TEST (92), MDAC-E RSI GAPS, RUN (63) 1973

SPECIFIC HEAT CORRECTED

3.4-125



PAGE 191

CFMT TEST (92), MDAC-E RSI GAPS, RUN (64) 1973

SPECIFIC HEAT CORRECTED

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	Z (CM)	Y-NOR (CM)	PT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	W-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	15.0	9.00	7.62	-7.27	0.00	-7.62	4.31E-03	2.199	1.588	7.665E-04	10.43	.76	.50	.067	1.572	.832
2	15.0	9.00	7.62	-7.27	0.00	-7.62	4.31E-03	2.199	1.588	7.665E-04	10.43	.76	.50	.067	1.572	.832
3	15.0	9.00	7.62	-7.27	0.00	-7.62	4.31E-03	2.199	1.588	7.665E-04	10.43	.76	.50	.786	1.572	.756
4	15.0	9.00	7.62	-7.27	0.00	-7.62	4.31E-03	2.199	1.588	7.665E-04	10.43	.76	.50	.411	1.572	.411
5	15.0	9.00	7.62	-7.27	0.00	-7.62	4.31E-03	2.199	1.588	7.665E-04	10.43	.76	.50	.065	1.572	.065

TILE COORDINATES(GAMMA=C.0
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER
RATIOED TO FLAT PLATE

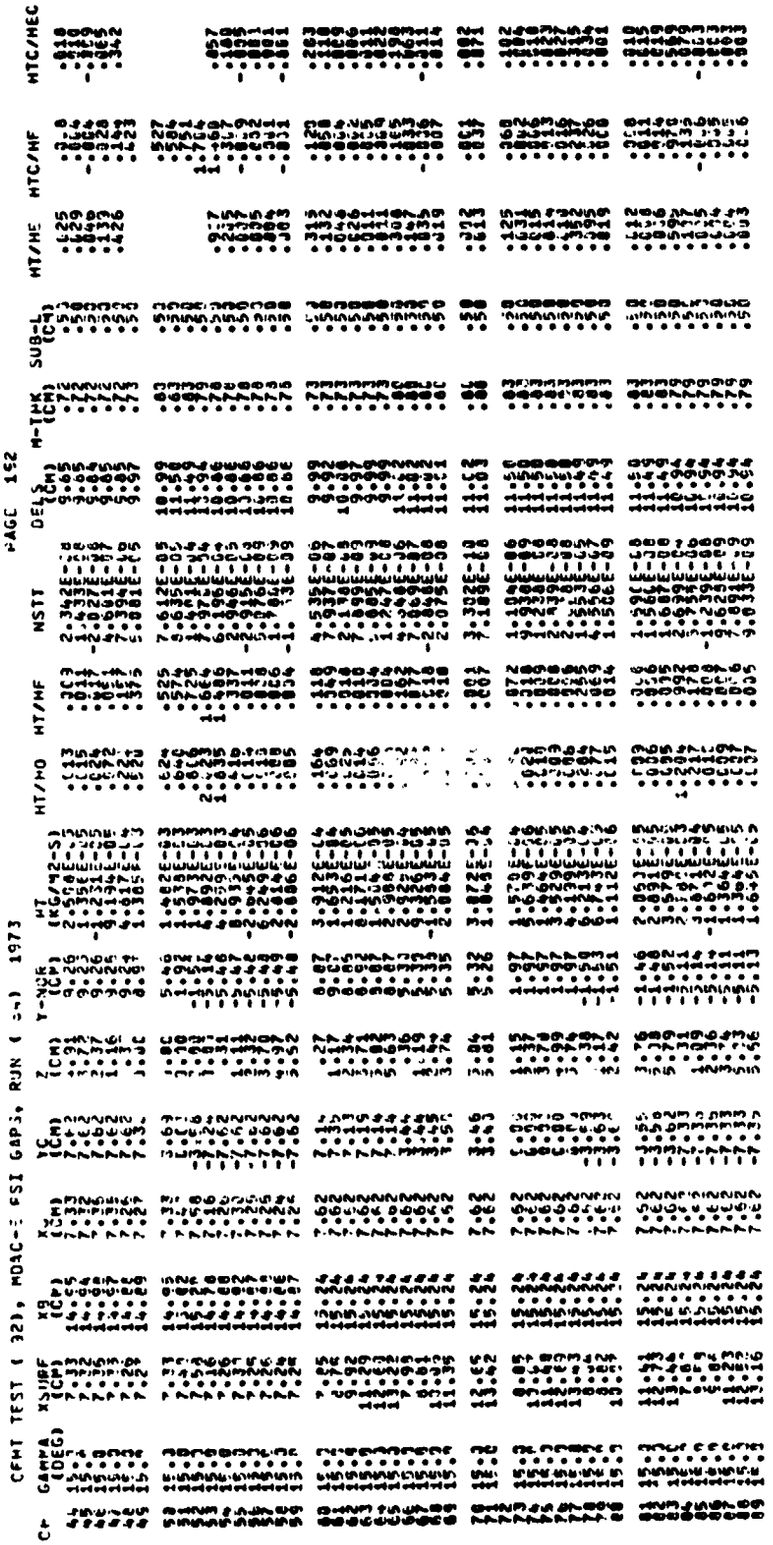
XAMZTT =0.875 FOR HT/HO
XSURF =SURFACE DISTANCE
(FLOW ORIENTED)
HTC/HF, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HEC, CONDUCTION CORRECTED HT/HF

MACH = 12.29
RE/FEET = .1022E+07
RE/METER = .3351E+07
RHO = .6615E-03 (KG/M2-K)
TEMP = 298.4 (K)
STEP = .254 (CM)

ALPHA = 40.0
BETA = 0.0
PHI = 0.0
TRANS VEL = 1.020E+01 (KG/M2-S)
GAP = .457 (CM)
CONF =IN-L

3.4-127

2.3-213



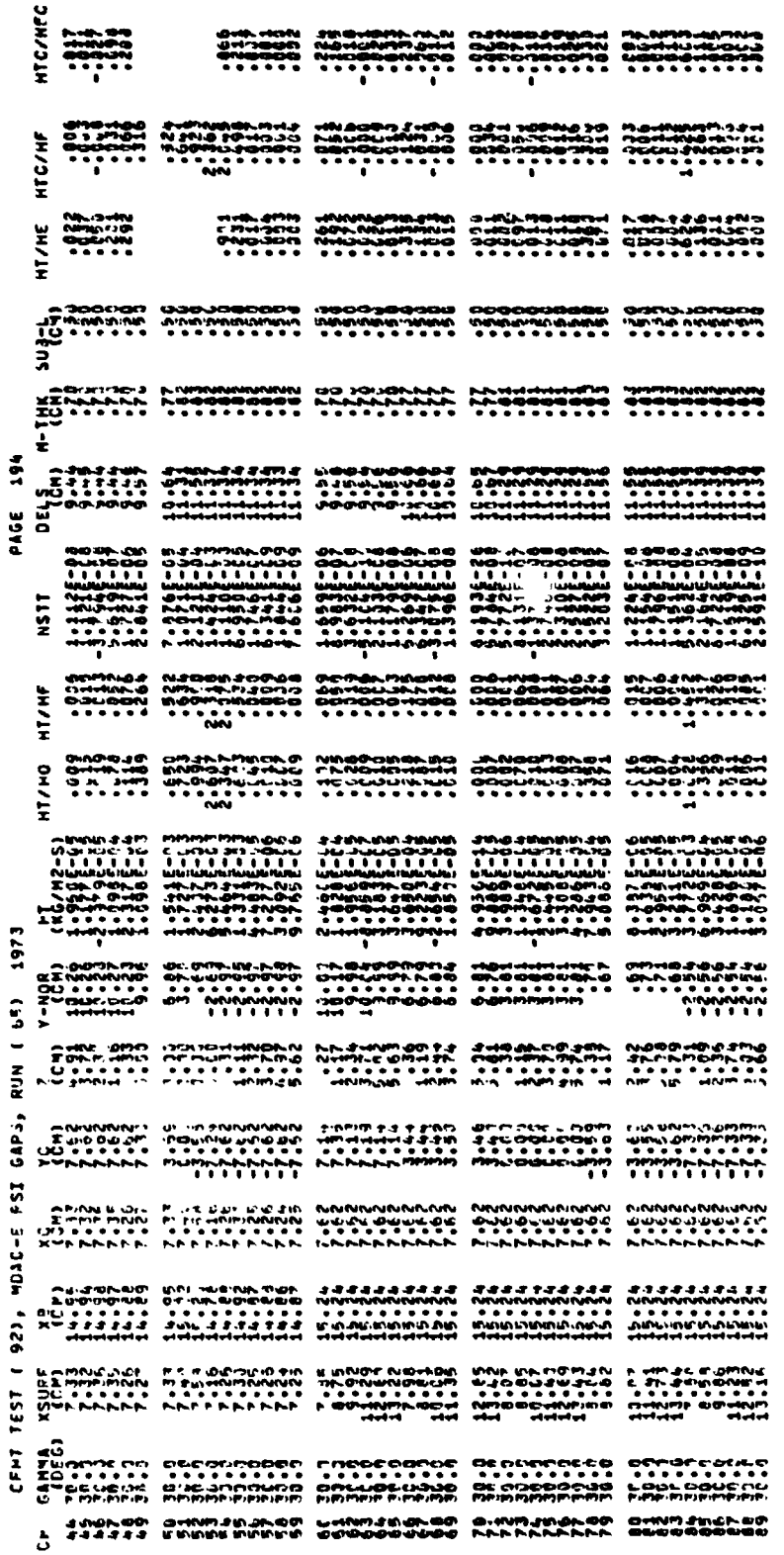
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CFHT TEST ( 92), PDAC-E RSI GAPS, RUN ( 65)  1973

RACH    = 1.0298E-01                TT      =  1.1[illegible]E+03(K)
RX,RE6  = 3.2746E-02                PI      =  5.1[illegible]E+06(N/M2)
RE/METER= 8.1129E+06                T1      =  4.7[illegible]E+02(K)
HO      = 2.6139E+08 (W/M2-K)       D       (RHO V1 =  9.[illegible]E+01(KG/M2-S)
TW      = 298.85 (K)                (GAP    =  1.[illegible] (CM)
STEP    =  .254 (CM)                CONF    =IN-L

   TAW/TT =0.895 FOR HT/HO                  TILE COORDINATES(GAMMA=0.0
  XSURF =SURFACE DISTANCE                     XB = X-COOR. FROM TILE LEADING EDGE
        (FLOW DIRECTION)                      XC = X-COOR. FROM TILE CENTER
        (DEG OR RAD) TO EDGE AT TILE TOP      YC = Y-COOR. FROM TILE CENTER
 HT/HE, GAP HEATING RATIO(EDUCTION CORRECTED) RATIOED TO FLAT PLATE
 HTC/HE, CAP HEATING (CONDUCTION CORRECTED HT/HE
 HTC/HEC, CONDUCTION CORRECTED HT/HE                    SPECIFIC HEAT CORRECTED

C+  GAMMA  XSURF     XB      XC      YC      Z      Y-NOR     PT        HT/HO    HT/HF    NSTT      DELS    M-THK   SUB-L    HT/HE   HTG/HF   HTC/HEC
    (DEG)  (CM)     (CM)    (CM)    (CM)    (CM)   (CM)      (KG/M2-S)                                  (CM)    (CM)    (CM)
    0 30.0  0.0     7.62    0.0     7.62    5.70   0.60      1.093E-05  .612     .810     1.031E-08  10.71   .76     .50     .814     .804     .805
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CFMT TEST (921), MDAC-E RSI GAPS, RUN (87) 1973 PAGE 195

MACH = 10.2341 IT = 5.1093E+03(K)
RX FPS = 1.0000E+00 PI = 5.1093E+03(K)
RN/FT = 1.0000E+00 PI = 4.1746E+01(N/M2)
RN/METER = 3.2808E+00 PI = 4.1746E+01(N/M2)
RHO = 2.6119E-02 (KG/M3-S) GAP V(1) = 1.1897E+01(KG/M2-S)
TW = 922.10 (K) GAP = 1.189 (CM)
STEP = .254(CM) CONF =IN-L

TANGTT =F(XSURF FOR HT/HO
XSURF =SURFACE DISTANCE
(FLOW DIRECTION)
HT/HO, GAP HEATING RATIOED TO CROSS AI TILE
HT/HF, CONDUCTION CORRECTED HT/HF

TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE LEADER
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

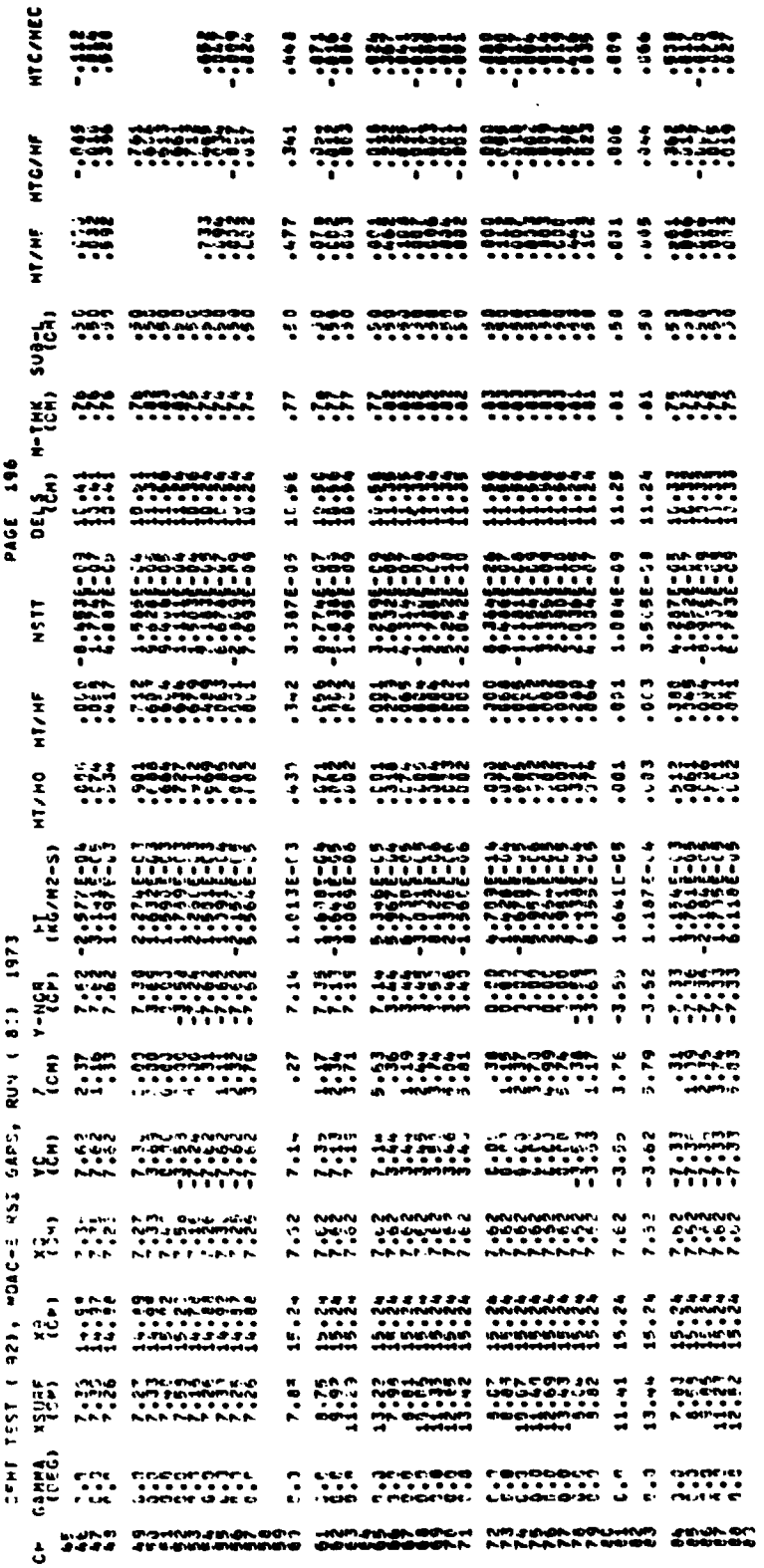
SPECIFIC HEAT CORRECTED

RATIOED TO FLAT PLATE

CP	GAMMA (DEG)	XSURF (CM)	X2 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	H-THK (CM)	SUBTH (CM)	HT/WE	HTG/HF	HTG/WEG
9																	
	0.0	0.00	7.62	-.00	7.62	2.03	7.62	1.127E-04	.002	.001	1.439E-08	10.41	.76	.50	.001	.037	.038
	0.0	0.00	7.62	-.00	7.62	2.36	7.62	1.127E-04	.002	.001	1.439E-08	10.41	.76	.50	.001	.037	.038
	0.0	0.00	7.62	-.00	7.62	1.49	7.62	1.127E-04	.002	.001	1.439E-08	10.41	.76	.50	.001	.037	.038
	0.0	0.00	7.62	-.00	7.62	.00	7.62	1.127E-04	.002	.001	1.439E-08	10.41	.76	.50	.001	.037	.038
	0.0	0.00	7.62	-.00	7.62	-.29	7.62	1.127E-04	.002	.001	1.439E-08	10.41	.76	.50	.001	.037	.038
	0.0	0.07	7.62	-.00	-7.62	1.47	-7.62	1.309E-04	.000	.040	5.122E-07	10.24	.74	.50	.040	.034	.034
	0.0	2.01	7.62	-.05	-7.62	2.39	-7.62	1.309E-04	.001	.001	-1.844E-08	10.24	.74	.50	.001	-.001	-.001
	0.0	2.01	7.62	-.05	-7.62	2.00	-7.62	1.309E-04	.001	.001	-1.844E-08	10.24	.74	.50	.001	-.001	-.001
	0.0	2.01	7.62	-.05	-7.62	1.49	-7.62	1.309E-04	.001	.001	-1.844E-08	10.24	.74	.50	.001	-.001	-.001
	0.0	2.01	7.62	-.05	-7.62	.00	-7.62	1.309E-04	.001	.001	-1.844E-08	10.24	.74	.50	.001	-.001	-.001
	0.0	2.01	7.62	-.05	-7.62	-.29	-7.62	1.309E-04	.001	.001	-1.844E-08	10.24	.74	.50	.001	-.001	-.001
	0.0	3.76	11.38	3.76	7.62	5.70	7.62	9.807E-05	.001	.001	9.378E-09	10.41	.76	.50	.001	.032	.033
	0.0	3.76	11.38	3.76	7.62	3.72	7.62	9.807E-05	.001	.001	9.378E-09	10.41	.76	.50	.001	.032	.033
	0.0	3.76	11.38	3.76	7.62	2.36	7.62	9.807E-05	.001	.001	9.378E-09	10.41	.76	.50	.001	.032	.033
	0.0	3.76	11.38	3.76	7.62	1.49	7.62	9.807E-05	.001	.001	9.378E-09	10.41	.76	.50	.001	.032	.033
	0.0	3.76	11.38	3.76	7.62	.00	7.62	9.807E-05	.001	.001	9.378E-09	10.41	.76	.50	.001	.032	.033
	0.0	3.76	11.38	3.76	7.62	-.29	7.62	9.807E-05	.001	.001	9.378E-09	10.41	.76	.50	.001	.032	.033
	0.0	5.45	11.42	3.80	-7.62	5.66	-7.62	2.040E-04	.003	.002	-3.952E-08	10.24	.74	.50	.002	-.067	-.068
	0.0	5.45	11.42	3.80	-7.62	3.62	-7.62	2.040E-04	.003	.002	-3.952E-08	10.24	.74	.50	.002	-.067	-.068
	0.0	5.45	11.42	3.80	-7.62	2.00	-7.62	2.040E-04	.003	.002	-3.952E-08	10.24	.74	.50	.002	-.067	-.068
	0.0	5.45	11.42	3.80	-7.62	1.19	-7.62	2.040E-04	.003	.002	-3.952E-08	10.24	.74	.50	.002	-.067	-.068
	0.0	5.45	11.42	3.80	-7.62	.00	-7.62	2.040E-04	.003	.002	-3.952E-08	10.24	.74	.50	.002	-.067	-.068
	0.0	5.45	11.42	3.80	-7.62	-.29	-7.62	2.040E-04	.003	.002	-3.952E-08	10.24	.74	.50	.002	-.067	-.068
	0.0	7.62	11.24	3.62	-7.62	5.66	-7.62	9.397E-05	.001	.001	-6.529E-09	10.24	.74	.50	.001	-.029	-.029

3.4-159

ORIGINAL PAGE IS
OF POOR QUALITY



CFHT TEST (92), MDAC-E RSI GAPS, RUN (81) 1973 PAGE 197

MACH = 10.290
RX EF6 = 3.375E-11
RL EFS = 8.261E-12
RE/METER = 3.253E+06
HO = 2.615E+3 (W/M2-K)
TW = 297.3 (K)
STEP = .254(CM)

TT = 1.083E+03(K)
PT = 5.162E+06(N/M2)
TI = 4.724E+01(K)
PI = 9.885E+01(N/M2)
(RHO V)1 = 1.826E+01(KG/M2-S)
GAP = .127 (CM)
CONF = IN-L

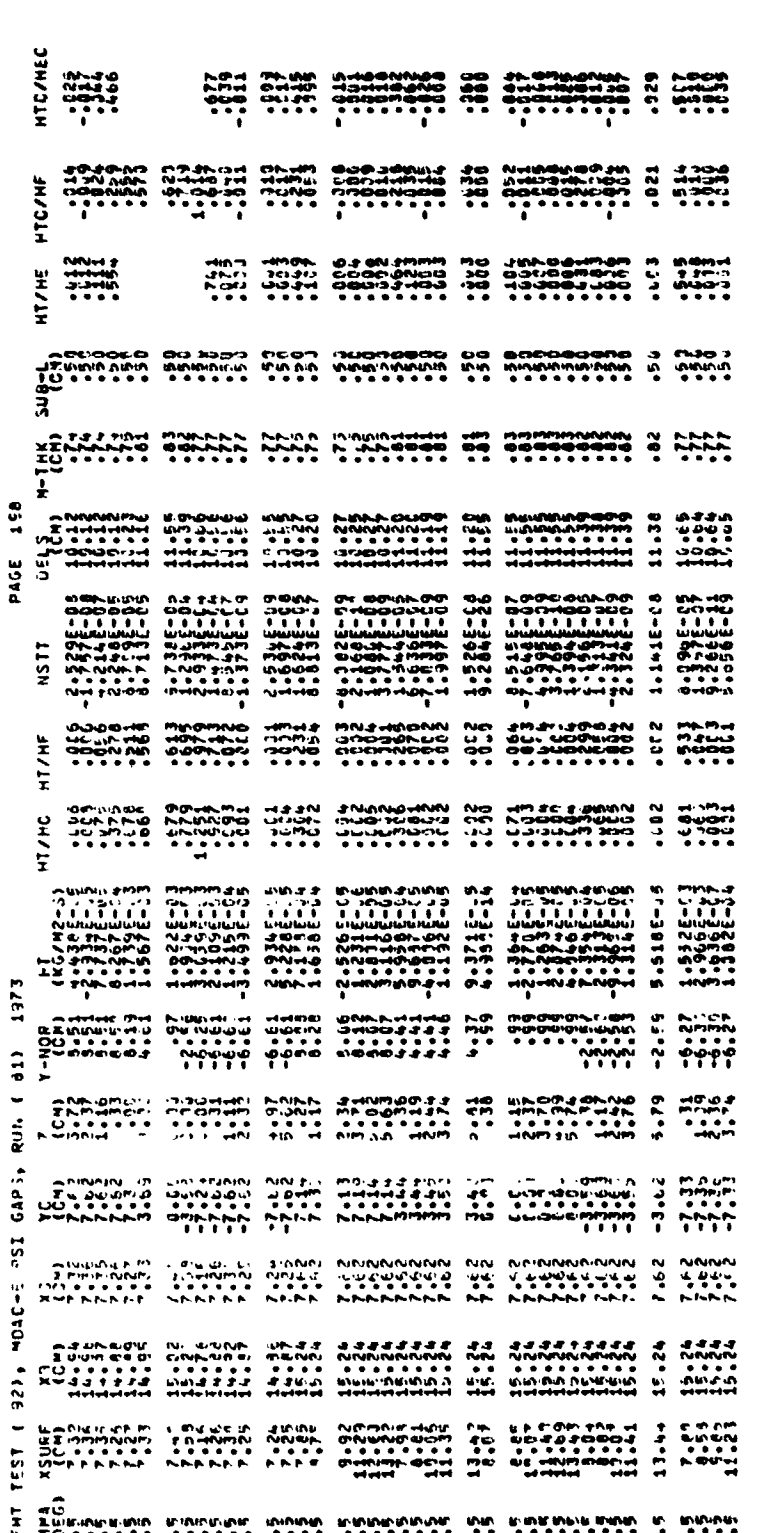
TAW/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG.)
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

TILE COORDINATES(GAMMA=0.0)
X9 = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

CH	GAMMA (DEG)	XSURF (CM)	X9 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	7.5	0.00	7.62	0.00	7.62	3.70	7.55	1.377E-06	.004	.003	3.401E-10	10.43	.76	.50	.004	.060	.005
10	7.5	0.00	7.62	0.00	7.62	5.03	7.55	6.739E-06	[illegible]	[illegible]	[illegible]	10.43	.76	.50	[illegible]	[illegible]	[illegible]
11	7.5	0.00	7.62	0.00	7.62	3.74	7.55	1.053E-05	[illegible]	[illegible]	[illegible]	10.43	.76	.50	[illegible]	[illegible]	[illegible]
12	7.5	0.00	7.62	0.00	7.62	2.36	7.55	-3.680E-05	.102	[illegible]	-5.[illegible]E-09	10.43	.76	.50	[illegible]	[illegible]	[illegible]
13	7.5	0.00	7.62	0.00	7.62	1.14	7.55	4.629E-05	.061	.046	2.165E-07	10.43	.76	.50	.036	-.015	-.018
14	7.5	0.00	7.62	0.00	7.62	.33	7.55	1.230E-03	.547	.429	5.162E-05	10.43	.74	.50	.504	.460	.473
15	7.5	0.00	7.62	0.00	7.29	0.00	7.23	2.568E-03	1.006	[illegible]	[illegible]	10.43	[illegible]	.50		[illegible]	
16	7.5	0.00	7.62	0.00	3.63	0.00	3.60	3.040E-03	1.204	[illegible]	[illegible]	[illegible]	[illegible]	.50		[illegible]	
17	7.5	0.00	7.62	0.00	0.00	0.00	0.00	2.974E-03	1.20[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.50		[illegible]	
18	7.5	0.00	7.62	0.00	-3.56	0.00	-3.51	2.981E-03	1.2[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.50		[illegible]	
19	7.5	0.00	7.62	0.00	-7.27	0.00	-7.20	3.623E-03	1.561	1.164	4.131E-04	10.37	.75	.50		1.164	
20																	
21	7.5	0.00	7.62	0.00	-7.62	1.17	-7.55	1.366E-04	.062	.046	6.132E-07	10.26	.75	.50	.040	.042	.037
22																	
23																	
24	7.5	0.00	7.62	0.00	-7.62	3.07	-7.55	-8.334E-05	.003	.002	-1.573E-08	10.28	.75	.50	.002	-.026	-.022
25	7.5	0.00	7.62	0.00	-7.62	3.73	-7.55	-1.055E-04	[illegible]	[illegible]	[illegible]	10.28	.75	.50	[illegible]	[illegible]	[illegible]
26	7.5	3.76	11.38	3.76	7.62	5.70	9.85	2.299E-05	.001	.001	1.393E-09	10.28	.75	.50	.001	-.007	-.006
27	7.5	3.83	11.42	3.80	7.62	5.74	8.05	1.717E-05	.001	.001	1.674E-09	10.28	.75	.50	.001	-.016	.006
28	7.5	3.76	11.38	3.76	7.62	3.72	8.05	1.208E-05	[illegible]	[illegible]	[illegible]	[illegible]	.75	.50	[illegible]	[illegible]	[illegible]
29	7.5	3.81	11.43	3.81	7.62	2.44	8.05	-3.680E-05	[illegible]	[illegible]	[illegible]	[illegible]	.75	.50	[illegible]	[illegible]	[illegible]
30	7.5	3.83	11.45	3.83	7.62	1.16	9.05	4.699E-05	[illegible]	[illegible]	[illegible]	[illegible]	.75	.50	[illegible]	[illegible]	[illegible]
31	7.5	3.87	11.49	3.87	7.62	.33	8.46	1.330E-03	.65[illegible]	[illegible]	[illegible]	[illegible]	.75	.50	.538	.444	.441
32	7.5	3.73	11.41	3.79	7.24	0.00	7.67	2.745E-03	[illegible]	[illegible]	[illegible]	[illegible]	.76	.50		[illegible]	
33	7.5	3.92	11.36	3.92	3.71	0.00	4.19	2.599E-03	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.50		[illegible]	
34	7.5	3.95	11.57	3.95	[illegible]	0.00	.52	2.538E-03	1.0[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.50		[illegible]	
35	7.5	3.89	11.51	3.89	-3.59	0.00	-3.83	2.838E-03	1.190	[illegible]	[illegible]	[illegible]	[illegible]	.50		[illegible]	
36	7.5	3.74	11.36	3.74	-7.28	[illegible]	-6.73	4.067E-03	1.692	1.294	6.152E-04	13.52	.76	.50		1.316	
37	7.5	3.79	11.41	3.79	-7.62	.37	-7.86	2.151E-03	.913	.691	1.4[illegible]E-04	10.42	.76	.50	.543	[illegible]	.529
38	7.5	3.74	11.35	3.74	-7.62	1.15	-7.07	4.687E-05	.048	.036	1.733E-07	10.42	.76	.50	.026	.016	.017
39																	
40	7.5	3.81	11.42	3.80	-7.62	3.62	-7.06	-2.052E-04	.000	.000	-4.651E-10	10.42	.76	.50	.000	-.066	-.059
41																	
42																	
43																	
44	7.5	7.33	14.95	7.33	7.62	4.91	8.51	1.816E-04	.004	.003	3.084E-08	10.12	.74	.50	.036	.032	.037

3.4-161



CFHT TEST (921, MDAC-E RSI GAPS, RUN (62) 1973

MACH = 14.290 TT = 5.1993E+03(K)
REY/FT = 5.3526E-04 PT = 5.1225E+01(N/M2)
REY/METER = 1.7562E+06 PI = 5.2314E+01(N/M2)
RHO = 2.9881E-03(KG/M3) (RHO V)1 = 1.3114E-01(KG/M2-S)
STEP = .2254 (IN) GAP = .127 (CM)
CONF = IN-L

TANGTT =0.000 FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE LEADING EDGE
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
HTC/HE, GAP HEATING (CONDUCTION CORRECTED) YC = TOP TILE RATIOED TO FLAT PLATE
HTC/HC, CONDUCTION CORRECTED HT/HE

SPECIFIC HEAT CORRECTED

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	PT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUBST (CM)	HT/HE	HTC/HF	HTC/NEC
1	15.5	0.00	7.62	7.62	7.62	5.33	7.36	6.720E-05	.985	.884	2.331E-08	10.049	.76	.38	.885	.888	.888
2	15.5	0.00	7.62	7.62	7.62	5.33	7.36	6.439E-05	.983	.882	1.882E-08	10.049	.76	.38	.885	.888	.888
3	15.5	0.00	7.62	7.62	7.62	5.33	7.36	6.159E-05	.980	.879	1.434E-08	10.049	.76	.38	.885	.888	.888
4	15.5	0.00	7.62	7.62	7.62	5.33	7.36	5.879E-05	.978	.877	9.861E-09	10.049	.76	.38	.885	.888	.888
5	15.5	0.00	7.62	7.62	7.62	5.33	7.36	5.599E-05	.975	.874	5.387E-09	10.049	.76	.38	.885	.888	.888
6	15.5	0.00	7.62	7.62	7.62	5.33	7.36	5.319E-05	.973	.872	9.131E-10	10.049	.76	.38	.885	.888	.888
7	15.5	0.00	7.62	7.62	7.62	5.33	7.36	5.039E-05	.970	.869	-3.600E-09	10.049	.76	.38	.885	.888	.888
8	15.5	0.00	7.62	7.62	7.62	5.33	7.36	4.759E-05	.968	.867	-8.114E-09	10.049	.76	.38	.885	.888	.888
9	15.5	0.00	7.62	7.62	7.62	5.33	7.36	4.479E-05	.965	.864	-1.263E-08	10.049	.76	.38	.885	.888	.888
10	15.5	0.00	7.62	7.62	7.62	5.33	7.36	4.199E-05	.963	.862	-1.715E-08	10.049	.76	.38	.885	.888	.888
11	15.5	0.00	7.62	7.62	7.62	5.33	7.36	3.919E-05	.960	.859	-2.167E-08	10.049	.76	.38	.885	.888	.888
12	15.5	0.00	7.62	7.62	7.62	5.33	7.36	3.639E-05	.958	.857	-2.619E-08	10.049	.76	.38	.885	.888	.888
13	15.5	0.00	7.62	7.62	7.62	5.33	7.36	3.359E-05	.955	.854	-3.071E-08	10.049	.76	.38	.885	.888	.888
14	15.5	0.00	7.62	7.62	7.62	5.33	7.36	3.079E-05	.953	.852	-3.523E-08	10.049	.76	.38	.885	.888	.888
15	15.5	0.00	7.62	7.62	7.62	5.33	7.36	2.799E-05	.950	.849	-3.975E-08	10.049	.76	.38	.885	.888	.888
16	15.5	0.00	7.62	7.62	7.62	5.33	7.36	2.519E-05	.948	.847	-4.427E-08	10.049	.76	.38	.885	.888	.888
17	15.5	0.00	7.62	7.62	7.62	5.33	7.36	2.239E-05	.945	.844	-4.879E-08	10.049	.76	.38	.885	.888	.888
18	15.5	0.00	7.62	7.62	7.62	5.33	7.36	1.959E-05	.943	.842	-5.331E-08	10.049	.76	.38	.885	.888	.888
19	15.5	0.00	7.62	7.62	7.62	5.33	7.36	1.679E-05	.940	.839	-5.783E-08	10.049	.76	.38	.885	.888	.888
20	15.5	0.00	7.62	7.62	7.62	5.33	7.36	1.399E-05	.938	.837	-6.235E-08	10.049	.76	.38	.885	.888	.888
21	15.5	0.00	7.62	7.62	7.62	5.33	7.36	1.119E-05	.935	.834	-6.687E-08	10.049	.76	.38	.885	.888	.888
22	15.5	0.00	7.62	7.62	7.62	5.33	7.36	8.389E-06	.933	.832	-7.139E-08	10.049	.76	.38	.885	.888	.888
23	15.5	0.00	7.62	7.62	7.62	5.33	7.36	5.589E-06	.930	.829	-7.591E-08	10.049	.76	.38	.885	.888	.888
24	15.5	0.00	7.62	7.62	7.62	5.33	7.36	2.789E-06	.928	.827	-8.043E-08	10.049	.76	.38	.885	.888	.888
1	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
2	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
3	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
4	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
5	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
6	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
7	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
8	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
9	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
10	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
11	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
12	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
13	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
14	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
15	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
16	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
17	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
18	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
19	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
20	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
21	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
22	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
23	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
24	15.5	3.76	11.38	3.74	7.52	3.72	9.33	5.432E-06	.888	.888	2.842E-12	10.018	.74	.50	.880	.882	.882
1	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
2	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
3	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
4	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
5	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
6	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
7	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
8	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
9	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
10	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
11	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
12	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
13	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
14	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
15	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
16	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
17	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
18	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
19	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
20	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
21	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
22	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
23	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882
24	15.5	3.63	11.42	3.67	7.62	3.52	6.38	2.893E-04	.888	.888	-4.930E-09	10.062	.77	.50	.880	.882	.882

3.4-163

ORIGINAL PAGE IS
OF POOR QUALITY

CFNT TEST (921), MDAC-E RSI GAPS, RUN (83) 1973 PAGE 251

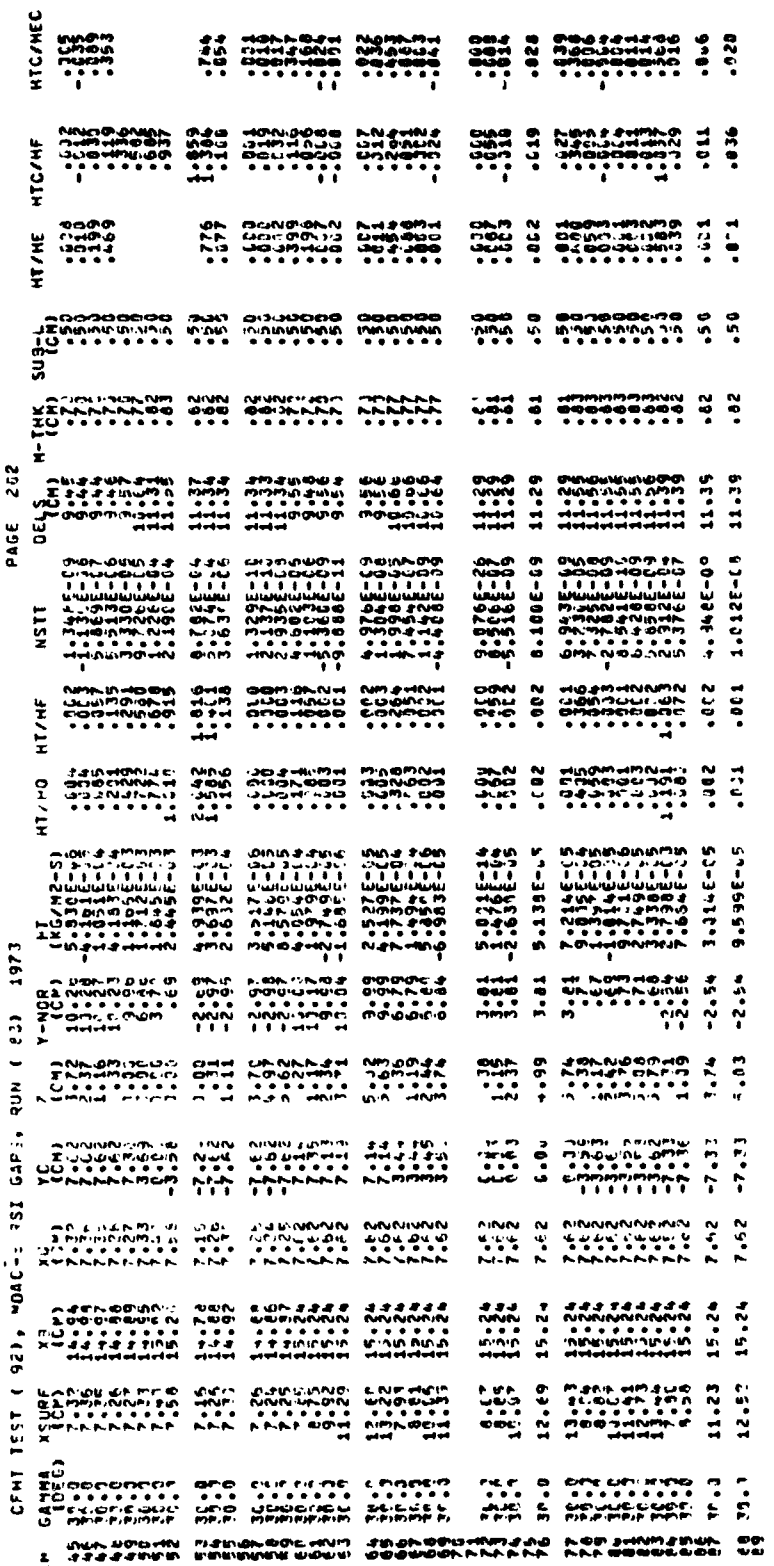
MACH = 10.250 TT = * 1.026E+03(K)
REYNOLDS = 3.32E-02 PT = * 5.171E+01(N/M2)
REF LENGTH = 3.280 PT = * 5.000E+01(N/M2)
ALPHA = 40.000(DEG) (RHO V)1 = * 1.127E+01(KG/M2-S)
WALL = 298.15(K) GAMA =IN-L
STEP = .254(CM) CONF =IN-L

TILE COORDINATES(GAMMA=0.0
XB = XCOOR. FROM TILE LEADING EDGE
XC = XCOOR. FROM TILE CENTER
YC = YCOOR. FROM TILE CENTER

TAWATT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE
(FLOW ORIENTED)
HT/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

SPECIFIC HEAT CORRECTED

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	N-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/MEC
1	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
2	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
3	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
4	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
5	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
6	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
7	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
8	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
9	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
10	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
11	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
12	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
13	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
14	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
15	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
16	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
17	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
18	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
19	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
20	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
21	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
22	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
23	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
24	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
25	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
26	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
27	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
28	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
29	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
30	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
31	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
32	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
33	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
34	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
35	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
36	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
37	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
38	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
39	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
40	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
41	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
42	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
43	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000
44	0.000	0.000	7.620	-7.620	0.000	0.000	9.442E+00	1.000	1.000	4.135E-03	1.000E+00	1.000	1.000	1.000	1.000	1.000



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CFHT TEST (92), MDAC-E RSI GAPS, RUN (86) 1973 PAGE 263

MACH = 10.290
RX E06 = 3.292E-01
RL E06 = 8.239E-02
RE/METER = 3.240E+06
HO = 2.619E+00(W/M2-K)
TW = 299.1 (K)
STEP = 0.339(CM)

TT = 1.085E+03(K)
PT = 5.167E+06(N/M2)
T1 = 4.737E+01(K)
P1 = 9.812E+01(N/M2)
(RHO V)1 = 1.125E+01(KG/M2-S)
GAP = .127 (CM)
CONF =IN-L

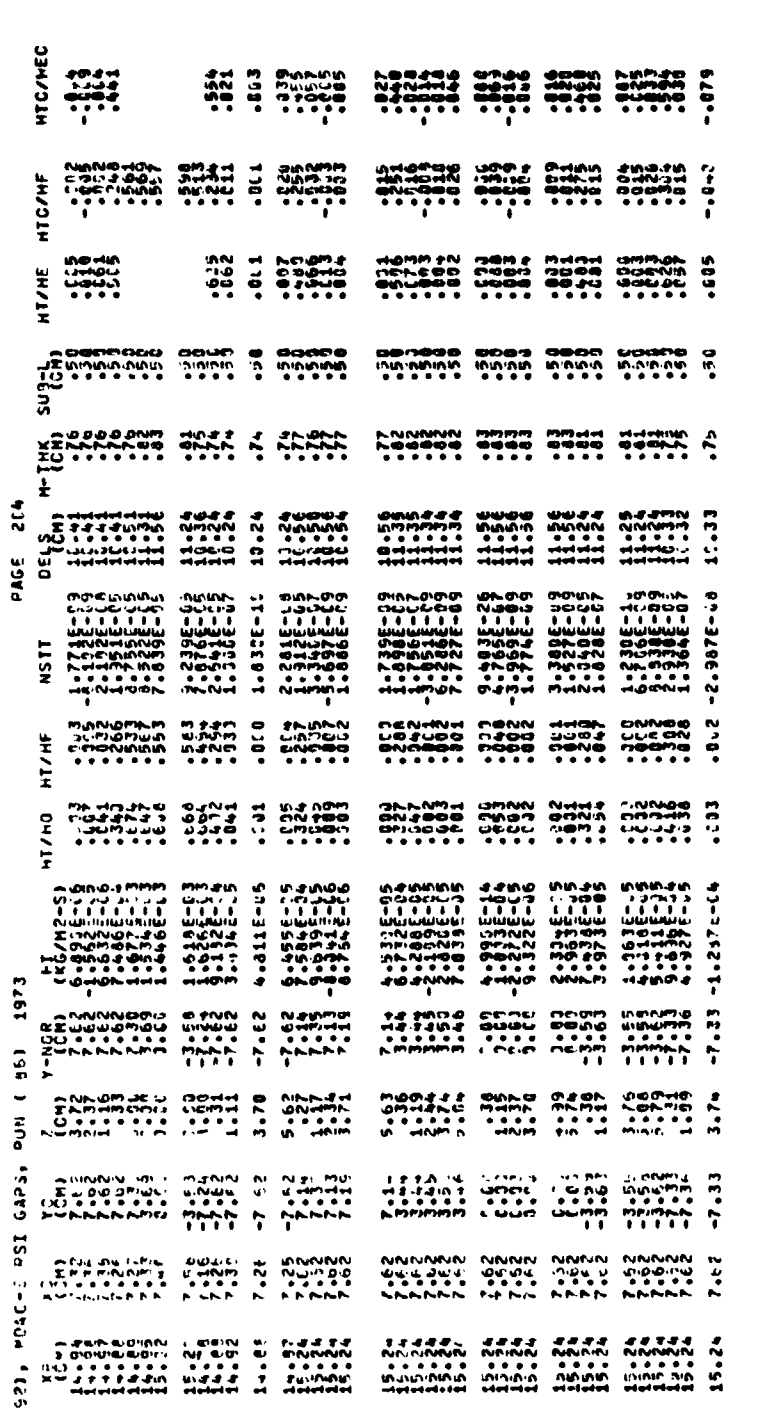
TAW/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)
HT/HF, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

TILE COORDINATES(GAMMA=0.0)
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	0.0	0.00	7.62	0.00	7.62	5.70	7.62	-2.661E-06	.004	.003	-7.590E-10	10.41	.76	.50	.004	-.001	-.001
10	0.0	0.00	7.62	0.00	7.62	5.03	7.62	3.672E-06	.006	.005	1.626E-09	10.41	.76	.50	.006	.001	.002
11	0.0	0.00	7.62	0.00	7.62	3.74	7.62	7.016E-06	.006	.005	3.170E-09	10.41	.76	.50	.006	.002	.003
12	0.0	0.00	7.62	0.00	7.62	2.36	7.62	-2.141E-05	.006	.004	-9.310E-09	10.41	.76	.50	.006	-.007	-.009
13	0.0	0.00	7.62	0.00	7.62	1.14	7.62	1.757E-05	.049	.038	6.563E-08	10.41	.76	.50	.052	.006	.008
14	0.0	0.00	7.62	0.00	7.62	.33	7.62	1.252E-03	.468	.369	3.730E-05	10.41	.76	.50	.495	.344	.456
15	0.0	0.00	7.62	0.00	7.29	0.00	7.29	2.256E-03	.944	.747	1.651E-04	10.51	.76	.50		.798	
16	0.0	0.00	7.62	0.00	3.63	0.00	3.63	2.829E-03	1.190	1.044	2.889E-04	11.32	.82	.50		1.047	
17	0.0	0.00	7.62	0.00	0.00	0.00	0.00	2.743E-03	1.163	1.059	2.846E-04	11.56	.83	.50		1.057	
18	0.0	0.02	7.62	0.00	-3.54	0.00	-3.54	2.777E-03	1.180	1.037	2.823E-04	11.25	.81	.50		1.027	
19	0.0	0.02	7.62	0.00	-7.27	0.00	-7.27	2.486E-03	1.066	.793	1.932E-04	10.35	.75	.50		.783	
20	0.0	0.00	7.62	0.00	-7.62	.41	-7.62	1.986E-06	.001	.001	1.197E-10	10.24	.74	.50	.001	.001	.001
21	0.0	0.00	7.62	0.00	-7.62	1.17	-7.62	8.966E-05	.040	.029	2.564E-07	10.24	.74	.50	.037	.028	.035
22																	
23	0.0	0.00	7.62	0.00	-7.62	3.70	-7.62	-8.764E-06	.005	.003	-2.877E-09	10.24	.74	.50	.004	-.003	-.003
24																	
25	0.0	0.00	7.62	0.00	-7.62	5.73	-7.62	-3.021E-05	.001	.000	-1.226E-09	10.24	.74	.50	.001	-.009	-.012
26	0.0	3.76	11.38	3.76	7.62	5.70	7.62	2.432E-05	.003	.002	5.385E-09	10.41	.76	.50	.003	.008	.009
27	0.0	3.80	11.42	3.80	7.62	3.84	7.62	1.420E-05	.001	.001	1.211E-09	10.41	.76	.50	.001	.005	.005
28	0.0	3.75	11.38	3.75	7.62	3.72	7.62	1.322E-05	.006	.005	5.655E-09	10.41	.76	.50	.005	.004	.005
29	0.0	3.81	11.43	3.81	7.62	2.44	7.62	-1.282E-05	.008	.007	-8.178E-09	10.41	.76	.50	.038	-.004	-.005
30	0.0	3.83	11.45	3.83	7.62	1.16	7.62	9.829E-06	.044	.035	3.057E-08	10.41	.76	.50	.041	.003	.003
31	0.0	3.87	11.49	3.87	7.62	.33	7.62	1.245E-03	.551	.430	5.250E-05	10.41	.76	.50	.518	.412	.471
32	0.0	3.79	11.41	3.79	7.24	0.00	7.24	2.620E-03	1.079	.855	2.184E-04	10.53	.77	.50		.875	
33	0.0	3.92	11.55	3.92	3.71	0.00	3.71	2.554E-03	1.078	.944	2.364E-04	11.31	.82	.50		.940	
34	0.0	3.95	11.57	3.95	0.03	0.00	0.03	2.467E-03	1.043	.949	2.294E-04	11.58	.83	.50		.951	
35	0.0	3.89	11.51	3.89	-3.59	0.00	-3.59	2.644E-03	1.115	.973	2.520E-04	11.24	.81	.50		.977	
36	0.0	3.76	11.38	3.76	-7.28	0.00	-7.28	2.679E-03	1.112	.827	2.171E-04	10.35	.75	.50		.843	
37	0.0	3.79	11.41	3.79	-7.62	.37	-7.62	1.079E-03	.482	.352	3.722E-05	10.24	.74	.50	.433	.334	.396
38	0.0	3.74	11.36	3.74	-7.62	1.15	-7.62	-3.265E-05	.027	.020	-6.350E-08	10.24	.74	.50	.024	-.018	-.012
39	0.0	3.81	11.42	3.80	-7.62	2.35	-7.62	1.899E-05	.004	.003	3.102E-09	10.24	.74	.50	.004	.003	.004
40	0.0	3.80	11.42	3.80	-7.62	3.62	-7.62	1.068E-04	.031	.008	4.063E-09	10.24	.74	.50	.030	.033	.339
41																	
42																	
43	0.0	7.35	14.97	7.35	7.62	5.70	7.62	1.177E-05	.002	.002	2.030E-09	10.41	.76	.50	.003	.004	.007
44	0.0	7.33	14.95	7.33	7.62	4.91	7.62	1.138E-05	.003	.003	2.737E-09	10.41	.76	.50	.005	.004	.007

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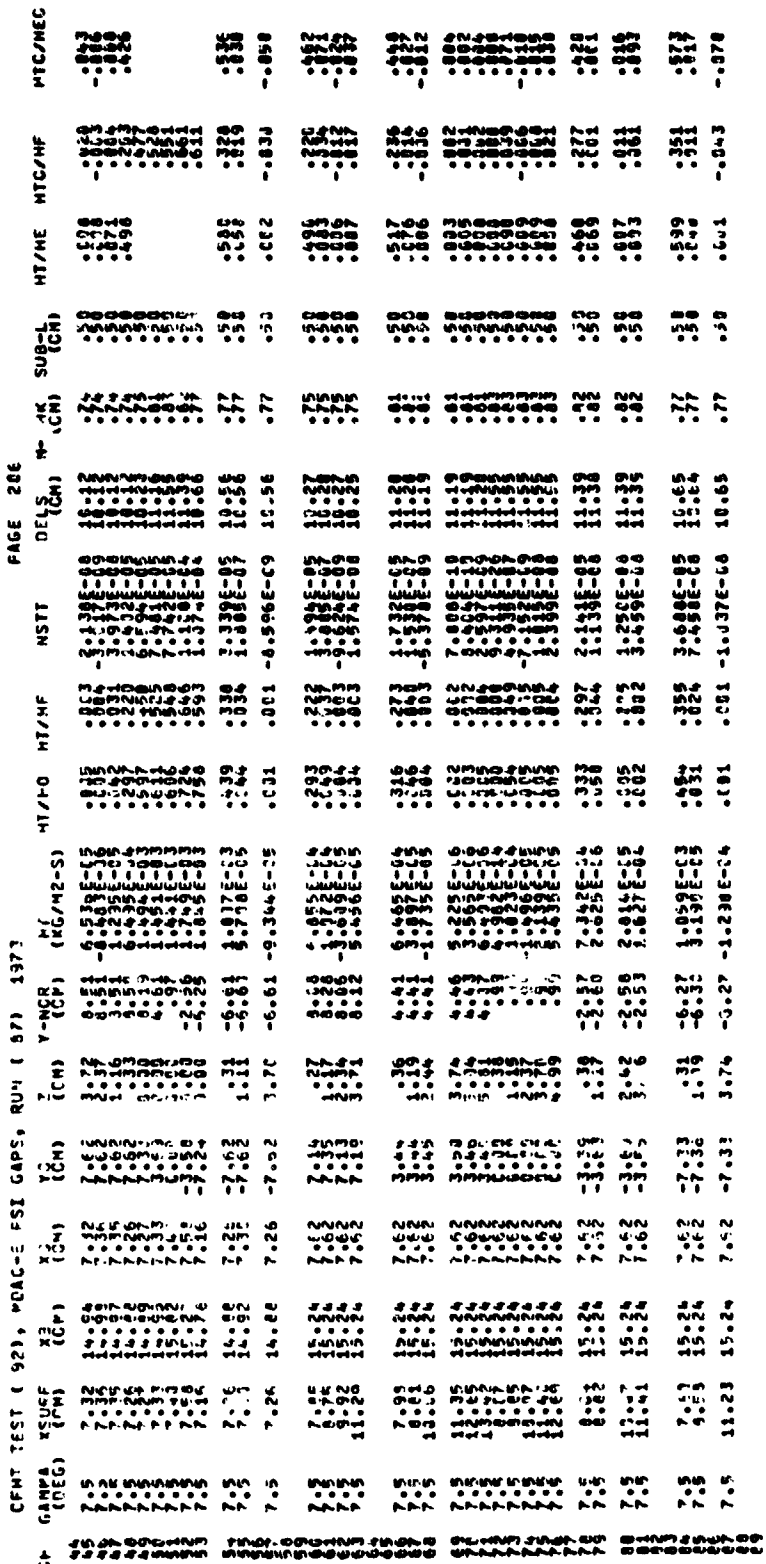
CFHT TEST (32), MOD-E RSI GAPS, RUN (67) 1973

SPECIFIC HEAT CORRECTED

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	W-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/NEC
	7.5	3.67	11.25	3.67	-7.38	2.04	-7.66	7.988E-05	.031	.001	4.951E-09	13.41	.76	.36	.001	.025	.027

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CFHT TEST (92), MDAC-E RSI GAPS, RUN (88) 1973 PAGE 207

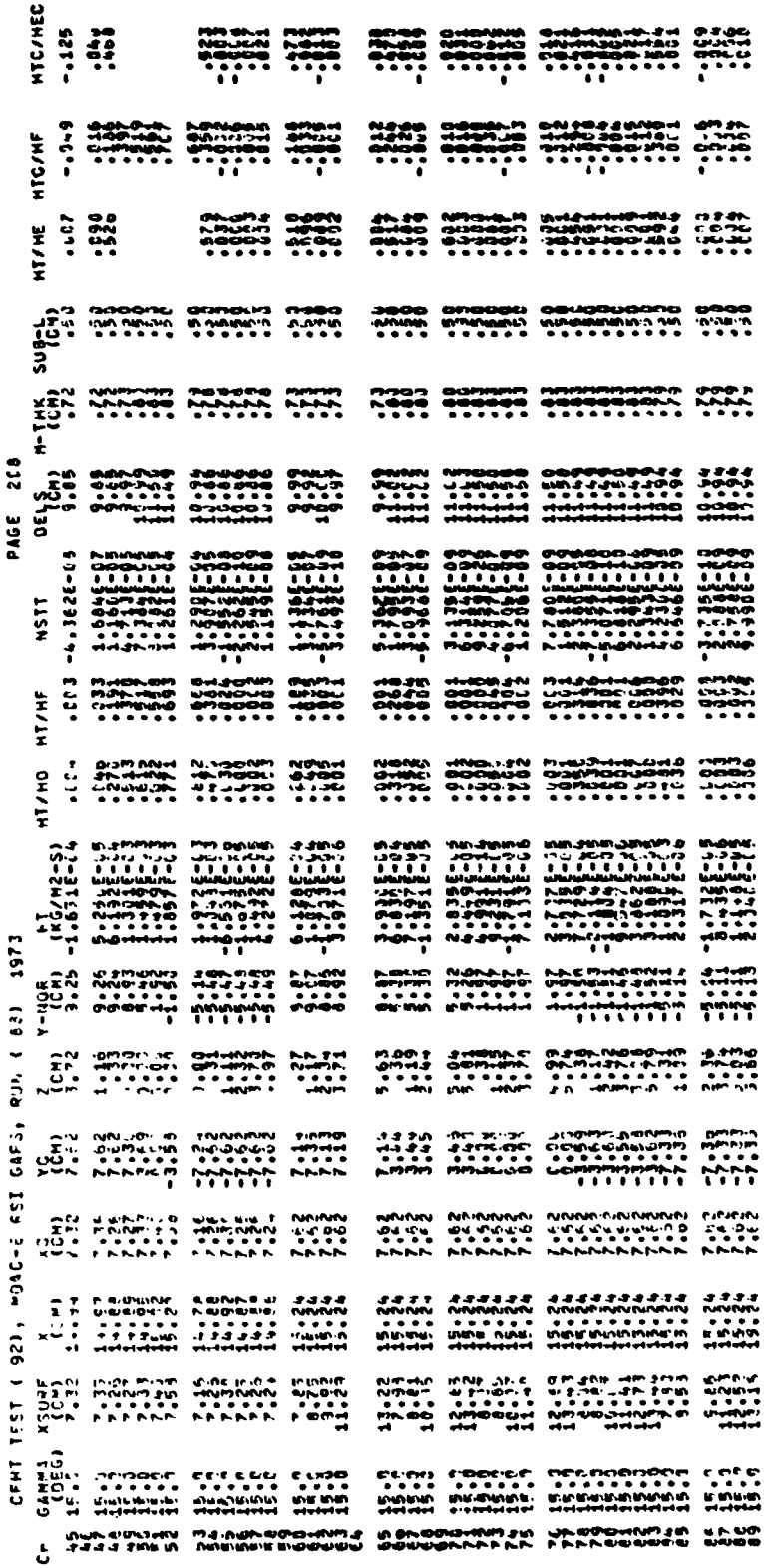
MACH = 10.290 TT = 1.035E+03(K)
RX FRG = 3.294E-01 PT = 5.169E+06(N/M2)
RL FRG = 8.234E-02 TI = 4.737E+01(K)
RE/METER = 3.241E+06 PI = 9.815E+01(N/M2)
HO = 2.615E+00(W/M2-K) (RHO V)1 = 1.026E+01(KG/M2-S)
TW = 298.5 (K) GAP = .127 (CM)
STEP = 0.000 (CM) CONF =IN-L

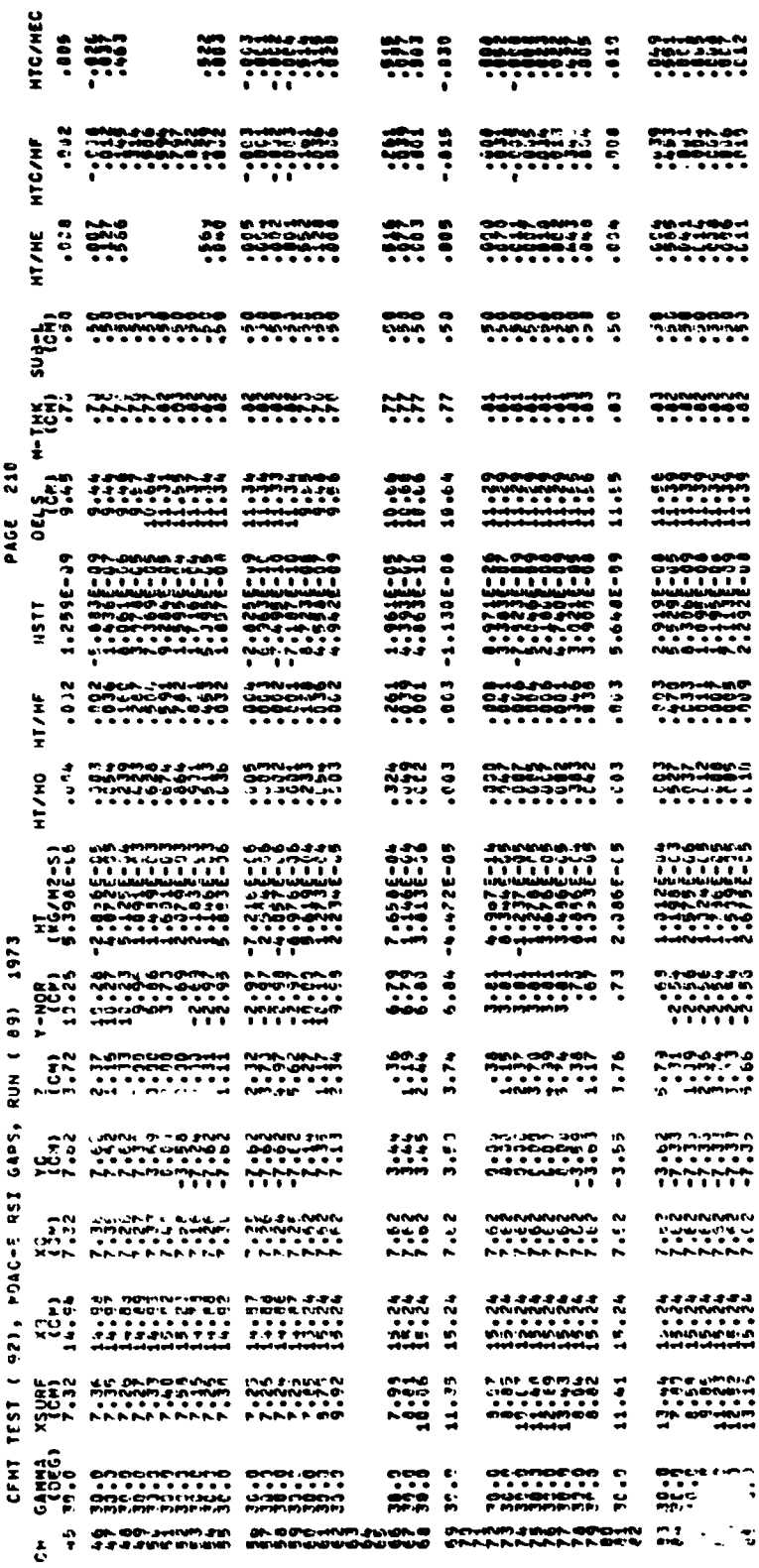
TAN/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)
TILE COORDINATES(GAMMA=0.0
X9 = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER
SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	X9 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	15.0	0.00	7.62	[illegible]	7.62	5.70	7.36	-5.464E-07	.004	.003	-1.614E-10	10.49	.76	.50	.004	-.000	-.066
10	15.0	0.00	7.62	[illegible]	7.62	5.03	7.36	-2.758E-06	.003	.002	-5.657E-10	10.49	.76	.50	.003	-.001	-.001
11	15.0	0.00	7.62	[illegible]	7.62	3.74	7.36	6.986E-06	.006	.005	-3.351E-09	10.49	.76	.50	.007	-.002	-.003
12	15.0	0.00	7.62	[illegible]	7.62	2.36	7.36	-1.939E-05	.007	.006	-4.116E-08	10.49	.76	.50	.008	-.006	-.009
13	15.0	0.00	7.62	[illegible]	7.62	1.14	7.36	1.983E-05	.049	.039	7.487E-08	10.49	.76	.50	.055	-.007	-.009
14	15.0	0.00	7.62	[illegible]	7.62	.33	7.36	9.319E-04	.421	.332	3.030E-05	10.49	.76	.50	.477	.311	.438
15	15.0	0.00	7.62	[illegible]	7.29	[illegible]	7.04	2.105E-03	.883	.704	3.455E-04	10.59	.77	.50		.711	
16	15.0	0.00	7.62	[illegible]	3.63	[illegible]	3.51	2.833E-03	1.196	1.001	2.918E-04	11.24	.82	.50		1.0[illegible]	
17	15.0	0.00	7.62	[illegible]	0.00	[illegible]	0.00	2.770E-03	1.173	1.058	2.597E-04	11.20	.83	.50		1.067	
18	15.0	0.00	7.62	[illegible]	-3.54	[illegible]	-3.42	2.816E-03	1.203	1.053	2.575E-04	11.07	.81	.50		1.044	
19	15.0	0.00	7.62	[illegible]	-7.27	.00	-7.02	2.750E-03	1.171	.882	2.375E-04	10.43	.76	.50		.077	
20	15.0	0.00	7.62	[illegible]	-7.62	.41	-7.36	2.961E-06	.001	.001	2.692E-10	10.32	.75	.50	.001	.001	.001
21	15.0	0.00	7.62	[illegible]	-7.62	1.17	-7.36	4.667E-05	.036	.026	1.207E-07	10.32	.75	.50	.038	.016	.017
22	15.0	0.00	7.62	[illegible]	-7.62	2.39	-7.36	-6.900E-05	.003	.002	-1.394E-08	10.32	.75	.50	.002	-.032	-.035
23	15.0	0.00	7.62	[illegible]	-7.62	3.70	-7.36	-1.090E-04	.003	.002	-2.468E-08	10.32	.75	.50	.003	-.034	-.039
24																	
25																	
26	15.0	3.76	11.38	3.76	7.62	5.70	8.33	6.653E-05	.001	.001	4.118E-09	10.18	.74	.50	.021	.021	.030
27	15.0	3.80	11.42	3.80	7.62	5.34	8.34	5.121E-05	.003	.003	1.306E-08	10.18	.74	.50	.024	.016	.023
28	15.0	3.75	11.38	3.76	7.62	3.72	8.33	6.634E-06	.L03	.002	1.361E-09	10.18	.74	.50	.003	.002	.003
29																	
30	15.0	3.83	11.45	3.83	7.62	1.16	8.35	1.463E-05	.043	.032	4.580E-08	10.17	.74	.50	.047	.025	.036
31	15.0	3.87	11.49	3.87	7.62	.33	8.36	1.066E-03	.459	.343	3.574E-05	10.17	.74	.50	.506	.337	.472
32	15.0	3.79	11.41	3.79	7.24	[illegible]	7.98	2.204E-03	.909	.694	1.499E-04	10.30	.75	.50		.713	
33	15.0	3.92	11.54	3.92	3.71	[illegible]	4.63	2.497E-03	1.0[illegible]	.906	2.215E-04	11.16	.81	.50		.909	
34	15.0	3.95	11.57	3.95	0.0[illegible]	[illegible]	1.02	2.489E-03	1.052	.950	2.315E-04	11.55	.83	.50		.951	
35	15.0	3.89	11.51	3.89	-3.59	[illegible]	-2.46	2.833E-03	1.195	1.067	2.960E-04	11.40	.82	.50		1.071	
36	15.0	3.74	11.36	3.74	-7.23	[illegible]	-6.06	3.048E-03	1.260	1.031	2.989E-04	10.71	.78	.50		1.018	
37	15.0	3.79	11.41	3.79	-7.62	.37	-6.38	1.212E-03	.522	.406	4.820E-05	10.62	.77	.50	.411	-.399	-.392
38	15.0	3.74	11.36	3.74	-7.62	1.15	-6.39	-1.011E-05	.020	.015	-1.913E-08	10.62	.77	.50	.015	-.003	-.003
39																	
40	15.0	3.80	11.42	3.[illegible]	-7.62	3.62	-6.38	-1.642E-04	.092	.002	-2.466E-08	10.62	.77	.50	.002	-.054	-.053
41																	
42																	
43																	
44																	

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CFHT TEST (92), MDAC-E RSI GAPS, RUN (134) 1973 PAGE 211

MACH = 10.29
RX FP6 = 3.197E-01
PL E26 = 7.991E-02
RE/METER = 3.146E+06
HO = 2.619E+00 (W/M2-K)
TW = 296.0 (K)
STEP = .254(CM)

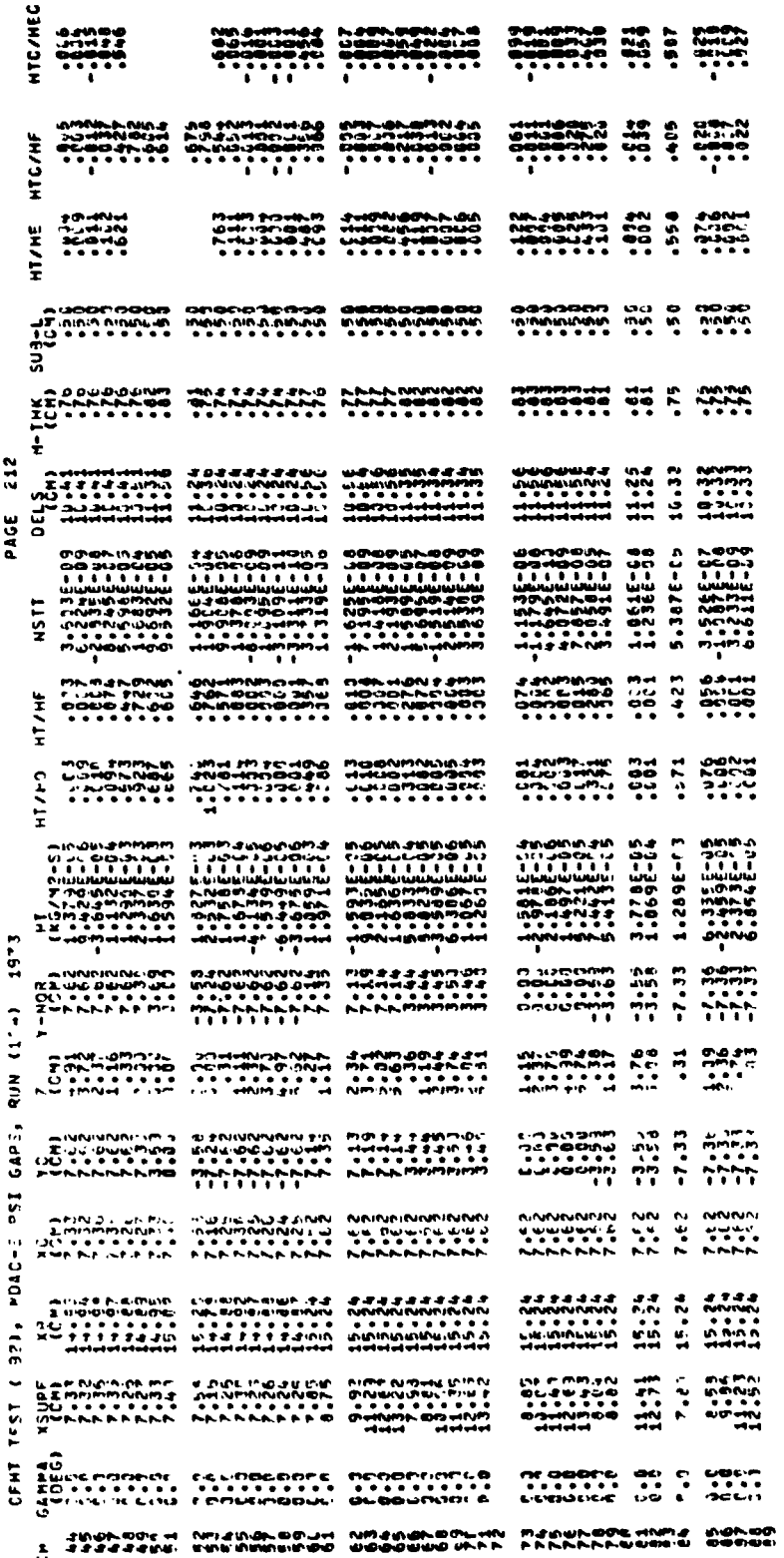
TT = 1.023E+03(K)
PI = 5.136E+06(N/M2)
T1 = 4.825E+01(K)
P1 = 9.825E+01(N/M2)
(RHO V)1 = 1.117E+01(KG/M2-S)
GAP = .229 (CM)
CONF =IN-L

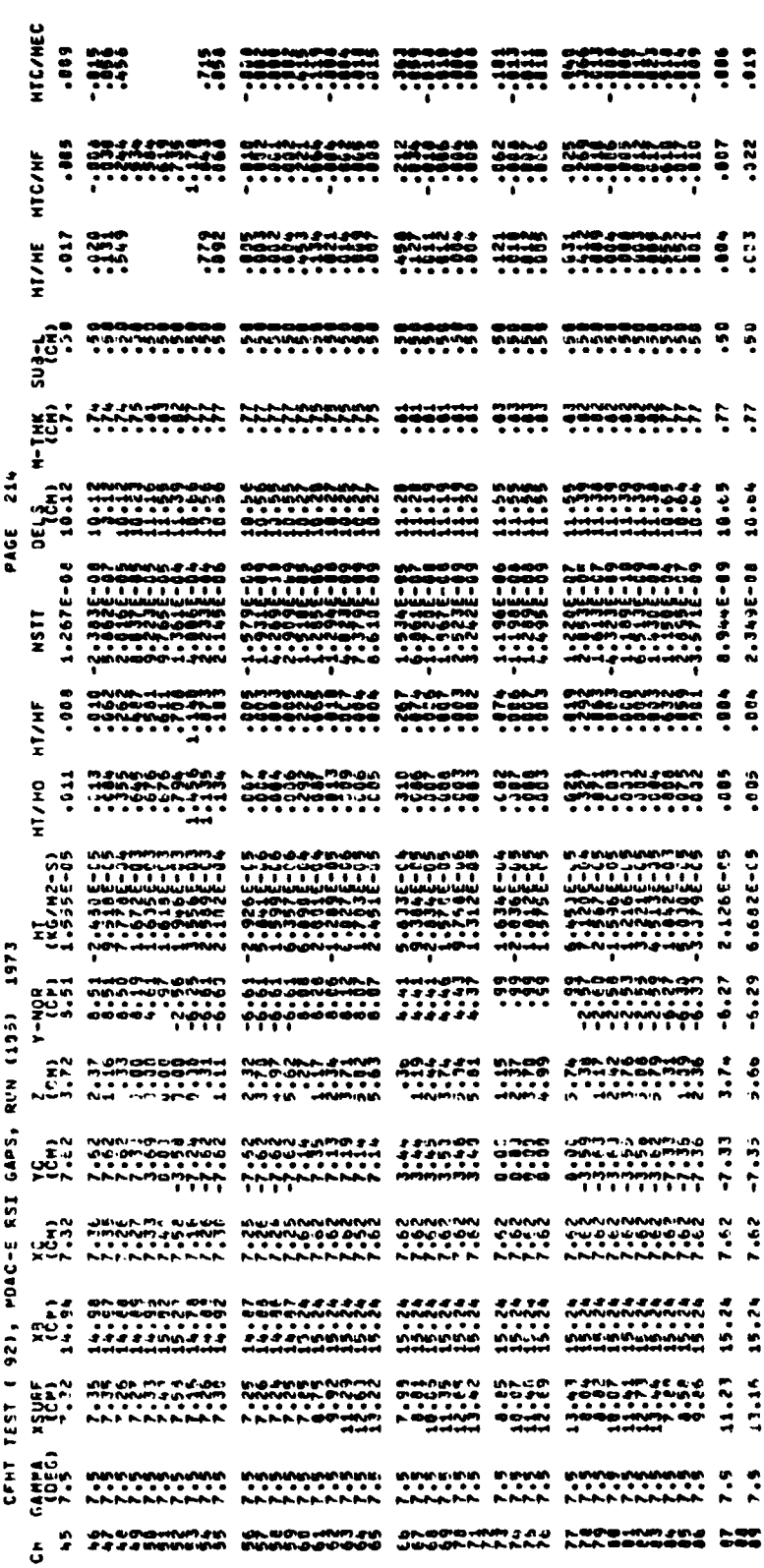
TAW/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)
TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER
SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	0.0	0.00	7.62	[illegible]	7.62	3.74	7.62	-5.131E-06	.001	.000	-2.124E-10	10.41	.76	.33	.000	-.342	[illegible]
10	0.0	0.00	7.62	[illegible]	7.62	2.03	7.62	1.065E-05	.004	.005	5.699E-09	10.41	.76	.33	.007	.005	.005
11	0.0	0.00	7.62	[illegible]	7.62	3.74	7.62	1.433E-05	.012	.009	1.369E-08	10.41	.76	.33	.039	.005	.005
12	0.0	0.00	7.62	[illegible]	7.62	2.36	7.62	-2.730E-05	.008	.007	-1.798E-08	10.41	.76	.50	.007	-.009	-.009
13	0.0	0.00	7.62	[illegible]	7.62	1.14	7.62	5.574E-05	.069	.054	2.950E-07	10.41	.76	.50	.056	.018	.019
14	0.0	0.00	7.62	[illegible]	7.62	.33	7.62	1.499E-03	.662	.517	7.656E-05	10.41	.76	.50	.529	.496	.501
15	0.0	0.00	7.62	[illegible]	7.29	0.00	7.29	2.955E-03	1.251	.969	2.887E-04	10.51	.76	.50		.989	
16	0.0	0.00	7.62	[illegible]	3.63	0.00	3.63	3.150E-03	1.333	1.169	3.650E-04	11.32	.82	.50		1.174	
17	0.0	0.00	7.62	[illegible]	0.00	1.00	0.00	3.093E-03	1.300	1.184	3.569E-04	11.56	.83	.50		1.176	
18	0.0	0.00	7.62	[illegible]	-3.54	0.00	-3.54	3.082E-03	1.335	1.166	3.550E-04	11.25	.81	.50		1.170	
19	0.0	0.00	7.62	[illegible]	-7.27	0.00	-7.27	3.346E-03	1.440	1.071	3.539E-04	10.35	.75	.50		1.054	
20	0.0	0.00	7.62	[illegible]	-7.62	.41	-7.62	4.570E-14	.000	.000	6.303E-26	10.24	.74	.50	.000	.000	.000
21	0.0	0.00	7.62	[illegible]	-7.62	1.17	-7.62	1.283E-04	.376	.055	7.332E-07	10.24	.74	.50	.053	.040	.038
22	0.0	0.00	7.62	[illegible]	-7.62	2.39	-7.62	-1.739E-05	.010	.007	-1.245E-08	10.24	.74	.50	.007	-.005	-.005
23	0.0	0.00	7.62	[illegible]	-7.62	3.79	-7.62	1.178E-05	.032	.002	2.061E-09	10.24	.74	.50	.002	.044	.003
24	0.0	0.00	7.62	[illegible]	-7.62	2.17	-7.62	3.154E-05	.005	.003	1.083E-08	10.24	.74	.50	.003	.010	.004
25	0.0	0.00	7.62	[illegible]	-7.62	3.73	-7.62	4.141E-05	.006	.004	1.721E-08	10.24	.74	.50	.024	.013	.012
26	0.0	3.76	11.38	3.76	7.62	5.70	7.62	9.469E-06	.004	.003	1.862E-09	10.41	.76	.50	.003	.002	.002
27	0.0	3.80	11.42	3.90	7.62	3.05	7.62	1.092E-05	.007	.006	6.264E-09	10.41	.76	.50	.002	.004	.003
28	0.0	3.74	11.39	3.75	7.62	3.72	7.62	1.353E-05	.010	.008	1.227E-08	10.41	.76	.50	.007	.004	.004
29	0.0	3.81	11.43	3.53	7.62	2.44	7.62	-3.055E-05	.011	.008	-2.528E-08	10.41	.76	.50	.008	-.010	-.009
30	0.0	3.83	11.45	3.83	7.62	1.16	7.62	1.365E-04	.088	.069	7.215E-07	10.41	.76	.50	.063	.035	.031
31	0.0	3.67	11.49	3.87	7.62	.33	7.62	1.908E-03	.633	.651	1.226E-04	10.41	.76	.50	.597	.631	.556
32	0.0	3.79	11.41	3.79	7.24	0.00	7.24	3.384E-03	1.396	1.165	3.695E-04	10.53	.77	.50		1.139	
33	0.0	3.92	11.34	3.92	3.71	0.00	3.71	2.729E-03	1.152	1.010	2.722E-04	11.31	.82	.50		1.013	
34	0.0	3.95	11.57	3.95	0.00	0.00	0.00	2.659E-03	1.123	1.022	2.679E-04	11.56	.83	.50		1.023	
35	0.0	3.83	11.41	3.59	-3.59	0.00	-3.59	2.854E-03	1.206	1.052	2.965E-04	11.24	.81	.50		1.054	
36	0.0	3.74	11.36	[illegible]	-7.26	0.00	-7.26	3.538E-03	1.508	1.121	4.328E-04	10.35	.75	.50		1.145	
37	0.0	3.79	11.41	3.79	-7.62	.37	-7.62	1.937E-03	.649	.621	1.187E-04	10.24	.74	.50	.563	.599	.523
38	0.0	3.74	11.36	3.74	-7.62	1.15	-7.62	6.231E-05	.073	.051	3.177E-07	10.24	.74	.50	.048	.019	.016
39	0.0	3.81	11.42	3.90	-7.62	2.35	-7.62	-3.611E-05	.004	.003	-9.156E-09	10.24	.74	.50	.002	-.011	-.010
40	0.0	3.82	11.45	3.90	-7.62	3.62	-7.62	1.969E-05	.003	.002	4.800E-09	10.24	.74	.50	.003	.006	.005
41	0.0	3.67	11.29	3.67	-7.62	5.24	-7.62	1.699E-05	.007	.005	8.578E-09	10.24	.74	.50	.035	.005	.005
42	0.0	3.62	11.24	3.62	-7.62	5.60	-7.62	5.615E-05	.002	.001	8.620E-09	10.24	.74	.30	.001	.017	.015
43	0.0	7.35	14.97	7.35	7.62	5.73	7.62	1.897E-05	.001	.001	1.291E-09	10.41	.76	.30	.001	.006	.008

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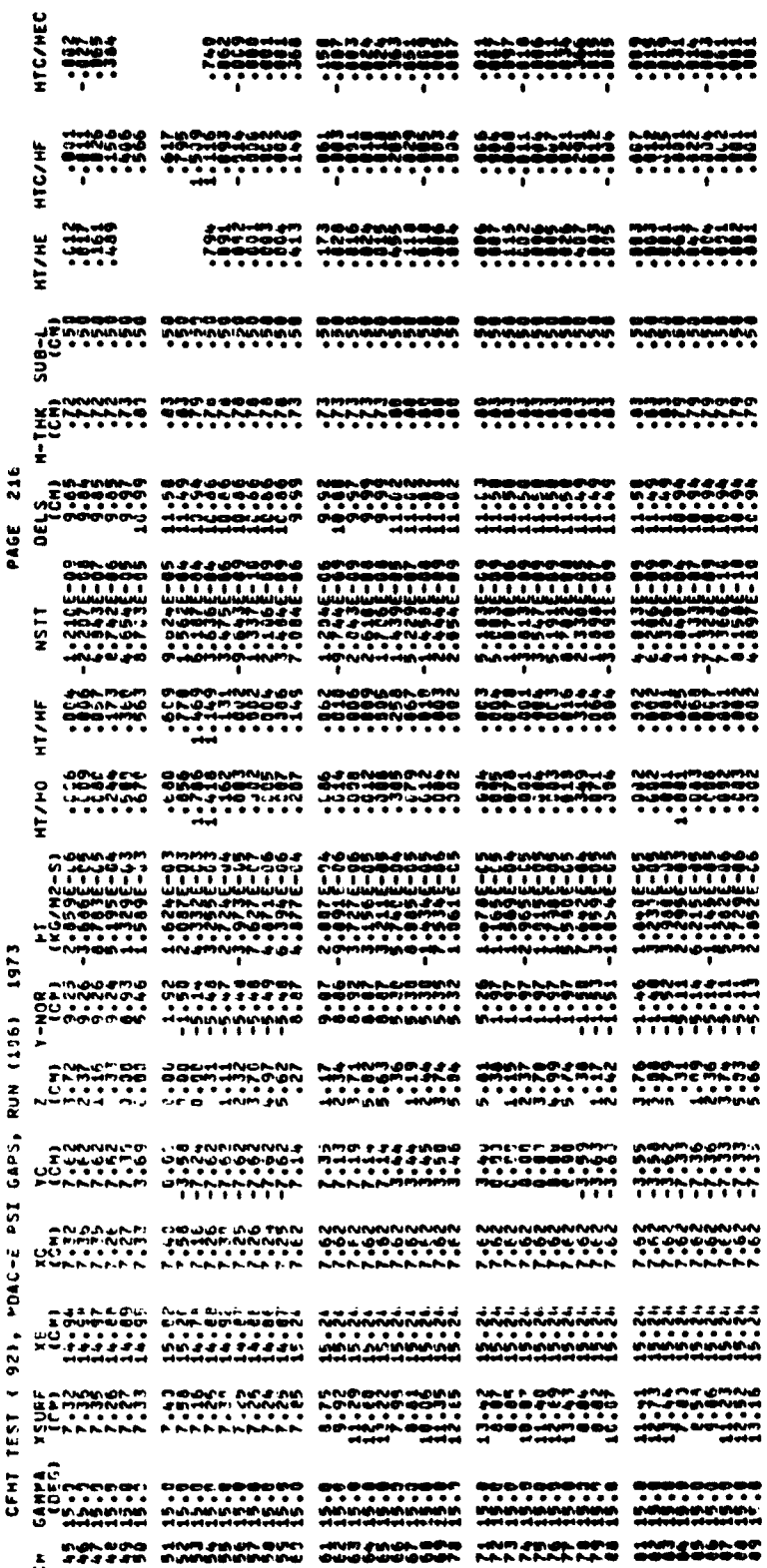
CFMT TEST (92), MDAC-E RSI GAPS, RUN (106) 1973 PAGE 215

MACH = 10.290 TT = 9.990E+02(K)
RX E06 = 3.345E-01 PI = 5.194E+06(N/M2)
RL E06 = 6.362E-02 TI = 4.784E+03(K)
RE/METER = 3.269E+06 PI = 9.052E+01(N/M2)
HO = 2.611E+07(M2/M2-K) (RHO V)1 = 1.033E+01(KG/M2-S)
TW = 294.9 (K) GAP = .229 (CM)
STEP = .254(CM) CONF =IN-L

TAW/TT =0.895 FCR HT/HO TILE COORDINATES(GAMMA=0.
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = Y-COOR. FROM TILE CENTER
HT/HE, GAP HEATING (BASIS) RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE SPECIFIC HEAT CORRECTED

GM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/MEC
1	15.00	0.000	7.662	0.000	0.000	0.00	2.962E+03	1.262	1.149	3.300E-04	11.55	.83	50	.551	.956	.948
2	15.00	0.000	7.662	-.356	0.000	-7.02	2.958E+03	1.260	1.147	3.298E-04	11.54	.82	50	.551	.956	.948
3	15.00	0.000	7.662	-.712	0.000	-7.02	2.951E+03	1.257	1.144	3.294E-04	11.53	.82	50	.551	.955	.947
4	15.00	0.000	7.662	-1.068	0.000	-7.02	2.940E+03	1.252	1.140	3.288E-04	11.51	.82	50	.550	.954	.946
5	15.00	0.000	7.662	-1.424	0.000	-7.02	2.924E+03	1.246	1.134	3.279E-04	11.48	.82	50	.549	.952	.944
6	15.00	0.000	7.662	-1.780	0.000	-7.02	2.903E+03	1.237	1.126	3.268E-04	11.44	.82	50	.548	.950	.942
7	15.00	0.000	7.662	-2.136	0.000	-7.02	2.876E+03	1.225	1.115	3.253E-04	11.39	.82	50	.546	.947	.939
8	15.00	0.000	7.662	-2.492	0.000	-7.02	2.843E+03	1.211	1.102	3.234E-04	11.33	.82	50	.543	.943	.935
9	15.00	0.000	7.662	-2.848	0.000	-7.02	2.803E+03	1.194	1.087	3.211E-04	11.25	.82	50	.540	.938	.930
10	15.00	0.000	7.662	-3.203	0.000	-7.02	2.756E+03	1.174	1.068	3.183E-04	11.15	.82	50	.536	.932	.924
11	15.00	0.000	7.662	-3.559	0.000	-7.02	2.702E+03	1.151	1.047	3.150E-04	11.03	.82	50	.531	.925	.917
12	15.00	0.000	7.662	-3.915	0.000	-7.02	2.641E+03	1.125	1.024	3.111E-04	10.90	.82	50	.525	.917	.909
13	15.00	0.000	7.662	-4.271	0.000	-7.02	2.573E+03	1.096	.997	3.067E-04	10.74	.82	50	.518	.907	.899
14	15.00	0.000	7.662	-4.627	0.000	-7.02	2.498E+03	1.064	.968	3.017E-04	10.56	.82	50	.510	.896	.888
15	15.00	0.000	7.662	-4.983	0.000	-7.02	2.416E+03	1.029	.936	2.961E-04	10.37	.82	50	.501	.883	.875
16	15.00	0.000	7.662	-5.339	0.000	-7.02	2.327E+03	.991	.902	2.900E-04	10.15	.82	50	.491	.869	.861
17	15.00	0.000	7.662	-5.695	0.000	-7.02	2.232E+03	.951	.865	2.833E-04	9.92	.82	50	.480	.853	.845
18	15.00	0.000	7.662	-6.051	0.000	-7.02	2.131E+03	.908	.826	2.761E-04	9.67	.82	50	.468	.836	.828
19	15.00	0.000	7.662	-6.407	0.000	-7.02	2.024E+03	.862	.784	2.683E-04	9.39	.82	50	.455	.818	.810
20	15.00	0.000	7.662	-6.763	0.000	-7.02	1.912E+03	.814	.741	2.601E-04	9.11	.82	50	.441	.798	.790
21	15.00	0.000	7.662	-7.119	0.000	-7.02	1.795E+03	.765	.696	2.514E-04	8.80	.82	50	.426	.777	.769
22	15.00	0.000	7.662	-7.475	0.000	-7.02	1.674E+03	.713	.649	2.423E-04	8.48	.82	50	.411	.755	.747
23	15.00	0.000	7.662	-7.831	0.000	-7.02	1.549E+03	.660	.601	2.328E-04	8.15	.82	50	.395	.732	.724
24	15.00	0.000	7.662	-8.187	0.000	-7.02	1.421E+03	.605	.551	2.230E-04	7.81	.82	50	.378	.708	.700
25	15.00	0.000	7.662	-8.543	0.000	-7.02	1.290E+03	.550	.500	2.129E-04	7.45	.82	50	.361	.683	.675
26	15.00	0.000	7.662	-8.899	0.000	-7.02	1.157E+03	.493	.448	2.026E-04	7.09	.82	50	.343	.658	.650
27	15.00	0.000	7.662	-9.255	0.000	-7.02	1.022E+03	.435	.396	1.921E-04	6.73	.82	50	.325	.632	.624
28	15.00	0.000	7.662	-9.611	0.000	-7.02	8.852E+02	.377	.343	1.815E-04	6.35	.82	50	.307	.606	.598
29	15.00	0.000	7.662	-9.967	0.000	-7.02	7.471E+02	.318	.289	1.708E-04	5.98	.82	50	.288	.579	.571
30	15.00	0.000	7.662	-10.323	0.000	-7.02	6.080E+02	.259	.235	1.601E-04	5.60	.82	50	.270	.552	.544
31	15.00	0.000	7.662	-10.679	0.000	-7.02	4.681E+02	.199	.181	1.494E-04	5.23	.82	50	.252	.525	.517
32	15.00	0.000	7.662	-11.035	0.000	-7.02	3.274E+02	.139	.127	1.388E-04	4.86	.82	50	.234	.498	.490
33	15.00	0.000	7.662	-11.391	0.000	-7.02	1.861E+02	.079	.072	1.283E-04	4.49	.82	50	.216	.471	.463
34	15.00	0.000	7.662	-11.747	0.000	-7.02	4.441E+01	.019	.017	1.180E-04	4.13	.82	50	.199	.445	.437
35	15.00	.356	7.662	-11.391	0.000	-7.02	1.861E+02	.079	.072	1.283E-04	4.49	.82	50	.216	.471	.463
36	15.00	.712	7.662	-11.035	0.000	-7.02	3.274E+02	.139	.127	1.388E-04	4.86	.82	50	.234	.498	.490
37	15.00	1.068	7.662	-10.679	0.000	-7.02	4.681E+02	.199	.181	1.494E-04	5.23	.82	50	.252	.525	.517
38	15.00	1.424	7.662	-10.323	0.000	-7.02	6.080E+02	.259	.235	1.601E-04	5.60	.82	50	.270	.552	.544
39	15.00	1.780	7.662	-9.967	0.000	-7.02	7.471E+02	.318	.289	1.708E-04	5.98	.82	50	.288	.579	.571
40	15.00	2.136	7.662	-9.611	0.000	-7.02	8.852E+02	.377	.343	1.815E-04	6.35	.82	50	.307	.606	.598
41	15.00	2.492	7.662	-9.255	0.000	-7.02	1.022E+03	.435	.396	1.921E-04	6.73	.82	50	.325	.632	.624
42	15.00	2.848	7.662	-8.899	0.000	-7.02	1.157E+03	.493	.448	2.026E-04	7.09	.82	50	.343	.658	.650
43	15.00	3.203	7.662	-8.543	0.000	-7.02	1.290E+03	.550	.500	2.129E-04	7.45	.82	50	.361	.683	.675
44	15.00	3.559	7.662	-8.187	0.000	-7.02	1.421E+03	.605	.551	2.230E-04	7.81	.82	50	.378	.708	.700
45	15.00	3.915	7.662	-7.831	0.000	-7.02	1.549E+03	.660	.601	2.328E-04	8.15	.82	50	.395	.732	.724
46	15.00	4.271	7.662	-7.475	0.000	-7.02	1.674E+03	.713	.649	2.423E-04	8.48	.82	50	.411	.755	.747
47	15.00	4.627	7.662	-7.119	0.000	-7.02	1.795E+03	.765	.696	2.514E-04	8.80	.82	50	.426	.777	.769
48	15.00	4.983	7.662	-6.763	0.000	-7.02	1.912E+03	.814	.741	2.601E-04	9.11	.82	50	.441	.798	.790
49	15.00	5.339	7.662	-6.407	0.000	-7.02	2.024E+03	.862	.784	2.683E-04	9.39	.82	50	.455	.818	.810
50	15.00	5.695	7.662	-6.051	0.000	-7.02	2.131E+03	.908	.826	2.761E-04	9.67	.82	50	.468	.836	.828
51	15.00	6.051	7.662	-5.695	0.000	-7.02	2.232E+03	.951	.865	2.833E-04	9.92	.82	50	.480	.853	.845
52	15.00	6.407	7.662	-5.339	0.000	-7.02	2.327E+03	.991	.902	2.900E-04	10.15	.82	50	.491	.869	.861
53	15.00	6.763	7.662	-4.983	0.000	-7.02	2.416E+03	1.029	.936	2.961E-04	10.37	.82	50	.501	.883	.875
54	15.00	7.119	7.662	-4.627	0.000	-7.02	2.498E+03	1.064	.968	3.017E-04	10.56	.82	50	.510	.896	.888
55	15.00	7.475	7.662	-4.271	0.000	-7.02	2.573E+03	1.096	.997	3.067E-04	10.74	.82	50	.518	.907	.899
56	15.00	7.831	7.662	-3.915	0.000	-7.02	2.641E+03	1.125	1.024	3.111E-04	10.90	.82	50	.525	.917	.909
57	15.00	8.187	7.662	-3.559	0.000	-7.02	2.702E+03	1.151	1.047	3.150E-04	11.03	.82	50	.531	.925	.917
58	15.00	8.543	7.662	-3.203	0.000	-7.02	2.756E+03	1.174	1.068	3.183E-04	11.15	.82	50	.536	.932	.924
59	15.00	8.899	7.662	-2.848	0.000	-7.02	2.803E+03	1.194	1.087	3.211E-04	11.25	.82	50	.540	.938	.930
60	15.00	9.255	7.662	-2.492	0.000	-7.02	2.843E+03	1.211	1.102	3.234E-04	11.33	.82	50	.543	.943	.935
61	15.00	9.611	7.662	-2.136	0.000	-7.02	2.876E+03	1.225	1.115	3.253E-04	11.39	.82	50	.546	.947	.939
62	15.00	9.967	7.662	-1.780	0.000	-7.02	2.903E+03	1.237	1.126	3.268E-04	11.44	.82	50	.548	.950	.942
63	15.00	10.323	7.662	-1.424	0.000	-7.02	2.924E+03	1.246	1.134	3.279E-04	11.48	.82	50	.549	.952	.944
64	15.00	10.679	7.662	-1.068	0.000	-7.02	2.940E+03	1.252	1.140	3.288E-04	11.51	.82	50	.550	.954	.946
65	15.00	11.035	7.662	-.712	0.000	-7.02	2.951E+03	1.257	1.144	3.294E-04	11.53	.82	50	.551	.955	.947
66	15.00	11.391	7.662	-.356	0.000	-7.02	2.958E+03	1.260	1.147	3.298E-04	11.54	.82	50	.551	.956	.948
67	15.00	11.747	7.662	0.000	0.000	-7.02	2.962E+03	1.262	1.149	3.300E-04	11.55	.83	50	.552	.956	.948
68	15.00	11.747	7.662	0.000	0.000	-6.30	4.770E+03	1.302	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
69	15.00	11.747	7.662	0.000	0.000	-6.41	8.673E+03	1.382	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
70	15.00	11.747	7.662	0.000	0.000	-6.52	1.246E+04	1.462	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
71	15.00	11.747	7.662	0.000	0.000	-6.63	1.623E+04	1.542	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
72	15.00	11.747	7.662	0.000	0.000	-6.74	2.000E+04	1.622	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
73	15.00	11.747	7.662	0.000	0.000	-6.85	2.377E+04	1.702	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
74	15.00	11.747	7.662	0.000	0.000	-6.96	2.754E+04	1.782	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
75	15.00	11.747	7.662	0.000	0.000	-7.07	3.131E+04	1.862	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
76	15.00	11.747	7.662	0.000	0.000	-7.18	3.508E+04	1.942	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
77	15.00	11.747	7.662	0.000	0.000	-7.29	3.885E+04	2.022	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
78	15.00	11.747	7.662	0.000	0.000	-7.40	4.262E+04	2.102	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
79	15.00	11.747	7.662	0.000	0.000	-7.51	4.639E+04	2.182	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
80	15.00	11.747	7.662	0.000	0.000	-7.62	5.016E+04	2.262	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
81	15.00	11.747	7.662	0.000	0.000	-7.73	5.393E+04	2.342	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
82	15.00	11.747	7.662	0.000	0.000	-7.84	5.770E+04	2.422	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
83	15.00	11.747	7.662	0.000	0.000	-7.95	6.147E+04	2.502	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
84	15.00	11.747	7.662	0.000	0.000	-8.06	6.524E+04	2.582	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
85	15.00	11.747	7.662	0.000	0.000	-8.17	6.901E+04	2.662	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
86	15.00	11.747	7.662	0.000	0.000	-8.28	7.278E+04	2.742	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
87	15.00	11.747	7.662	0.000	0.000	-8.39	7.655E+04	2.822	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
88	15.00	11.747	7.662	0.000	0.000	-8.50	8.032E+04	2.902	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
89	15.00	11.747	7.662	0.000	0.000	-8.61	8.409E+04	2.982	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
90	15.00	11.747	7.662	0.000	0.000	-8.72	8.786E+04	3.062	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
91	15.00	11.747	7.662	0.000	0.000	-8.83	9.163E+04	3.142	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
92	15.00	11.747	7.662	0.000	0.000	-8.94	9.540E+04	3.222	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
93	15.00	11.747	7.662	0.000	0.000	-9.05	9.917E+04	3.302	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
94	15.00	11.747	7.662	0.000	0.000	-9.16	1.029E+05	3.382	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
95	15.00	11.747	7.662	0.000	0.000	-9.27	1.067E+05	3.462	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
96	15.00	11.747	7.662	0.000	0.000	-9.38	1.105E+05	3.542	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
97	15.00	11.747	7.662	0.000	0.000	-9.49	1.143E+05	3.622	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
98	15.00	11.747	7.662	0.000	0.000	-9.60	1.181E+05	3.702	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
99	15.00	11.747	7.662	0.000	0.000	-9.71	1.219E+05	3.782	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
100	15.00	11.747	7.662	0.000	0.000	-9.82	1.257E+05	3.862	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
101	15.00	11.747	7.662	0.000	0.000	-9.93	1.295E+05	3.942	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
102	15.00	11.747	7.662	0.000	0.000	-10.04	1.333E+05	4.022	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
103	15.00	11.747	7.662	0.000	0.000	-10.15	1.371E+05	4.102	1.421	6.809E-04	10.43	.76	50	.639	.831	.810
104	15.00	11.747	7.662	0.000	0.000	-10.26	1.409E+05	4.182	1.421	6.809E-04	10.43	.76	50	.639	.831	.810

3.4-211


CFMT TEST (921, PDAC-E PSI GAPS, RUN (156) 1973
PAGE 216
CW GAMMA (DEG) XSURF (CM) XE (CM) XC (CM) YC (CM) Z (CM) Y-NOR (CM) PT (KG/M2-S) HT/HO HT/HF NSTT DELS (CM) M-THK (CM) SUB-L (CM) HT/HE HTC/HF HTC/HEC

CFMT TEST (920, MOAC-E RSI GAPS, RUN (.7) 1973 PAGE 217

MACH = 17.29
RX E65 = 3.36[illegible]E-01
RE/METER = 8.93[illegible]E+06
HO = 2.26[illegible]E+08 (W/M2-K)
TW = 294.4 (K)
STEP = .25 (CM)

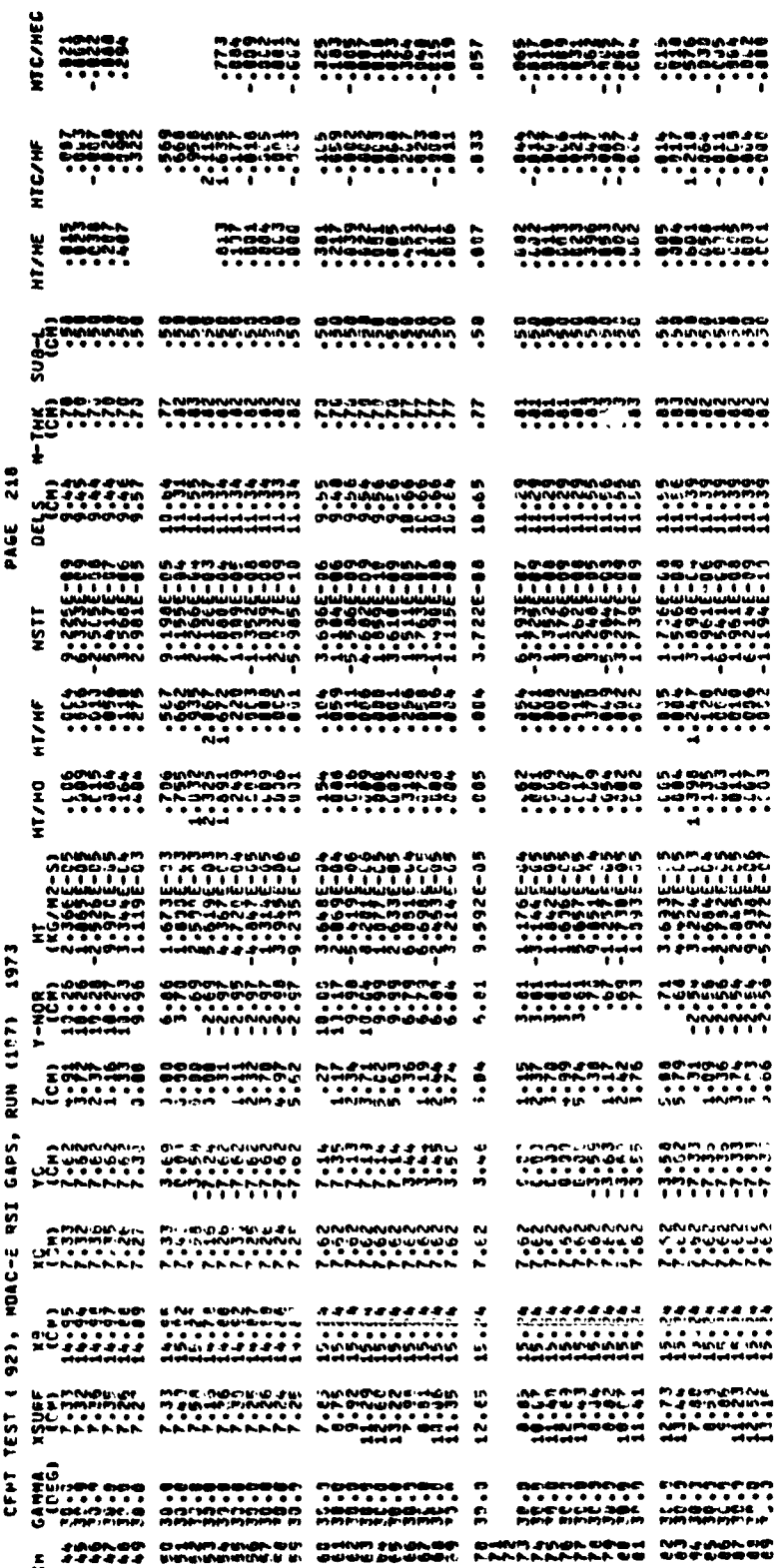
PT = 9.962E+02(K)
PI = 5.180E+06(N/M2)
T4 = 4.690E+01(K)
P4 = 9.406E+01(N/M2)
(RHO V)4 = 1.836E-01(KG/M2-S)
GAP = .229 (CM)
CONF =IN-L

TAN/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION)
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (C.)RRECTED HT/HE
HTC/HEC, CONDUCTION C.RRECTED HT/HE

TILE COORDINATES(GAMMA=0.6
X9 = X-COOR. FROM TILE LEAK
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

CP	GAMMA (DEG)	XSURF (CM)	X8 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	30.0	0.00	7.62	0.00	7.62	5.78	6.60	9.472E-06	.805	.804	3.990E-09	10.71	.78	.58	.806	.803	.805



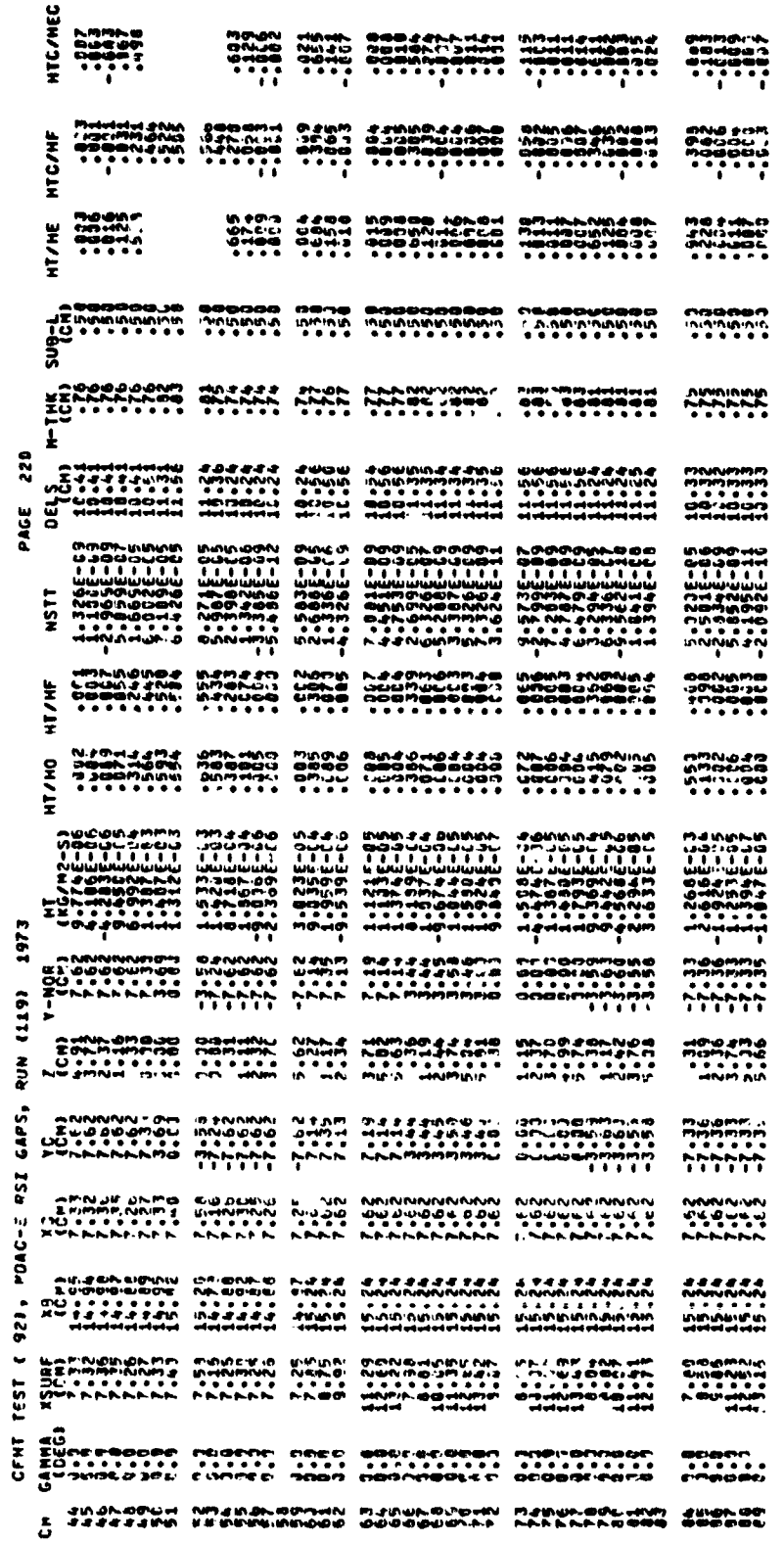
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CFHT TEST (92), MDAC-E RSI GAPS, RUN (119) 1973 PAGE 219

MACH = 10.291 IT = 9.988E+02(K)
RX E06 = 3.352E-01 PI = 5.184E+06(N/M2)
RL E06 = 8.398E-12 TI = 4.699E+01(K)
RE/METER = 3.259E+06 PI = 9.856E+01(N/M2)
HO = 2.681E+08(W/M2-K) (RHO V)1 = 1.334E+01(KG/M2-S)
TW = 366.7 (K) GAP = .229 (CM)
STEP = -.100(CM) CONF =STAG

TAN/TT =0.99E FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE X9 = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 OR 90 DEG.) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

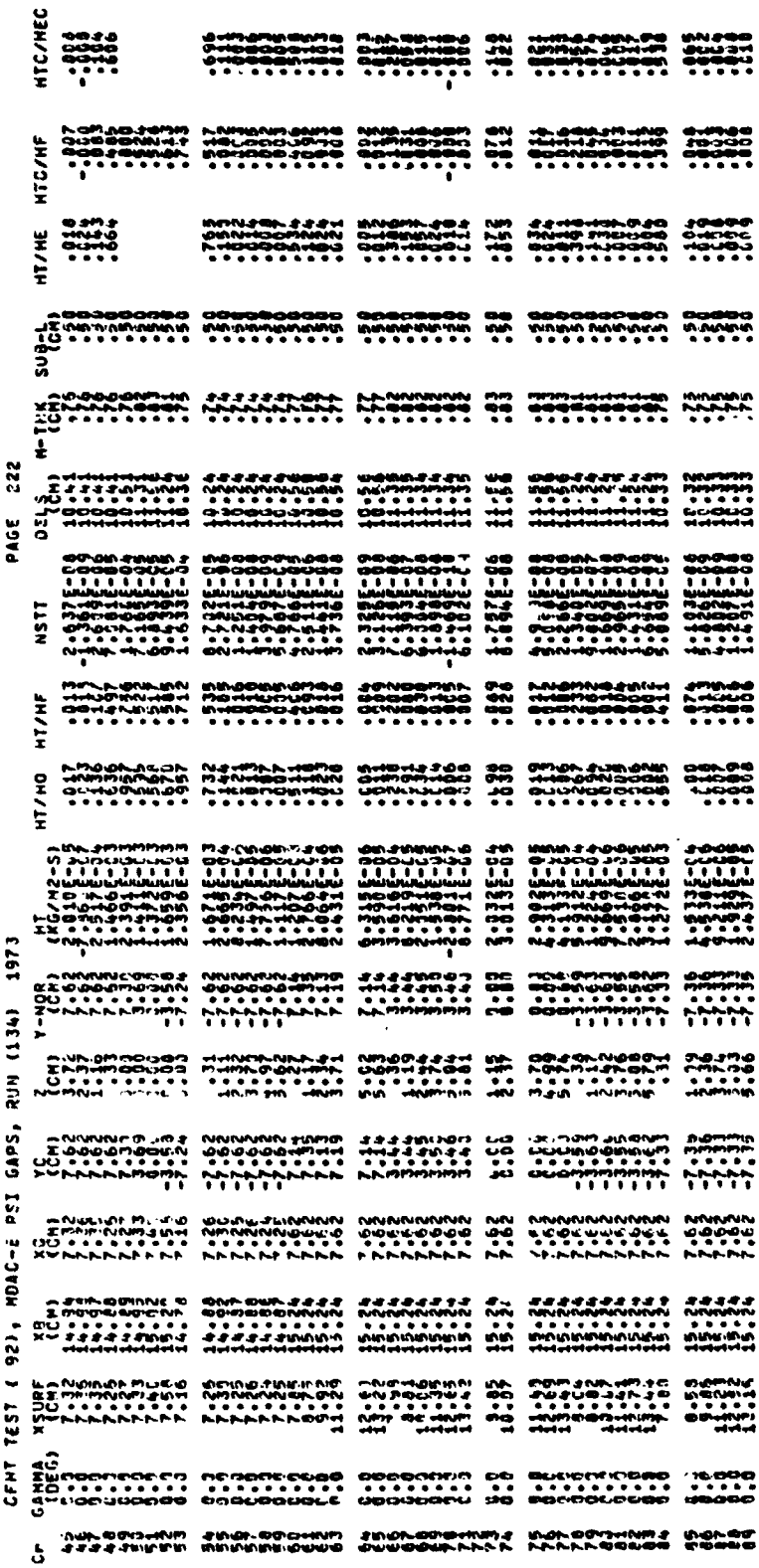
CM	GAMMA (DEG)	XSURF (CM)	X9 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	HSTT	DELS (CM)	H-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	0.0	0.00	7.62	0.00	7.62	5.70	7.62	1.775E-05	.012	.008	1.386E-08	10.41	.76	.50	.012	.006	.009
10	0.0	0.00	7.62	0.00	7.62	5.83	7.62	2.056E-05	.014	.011	2.062E-08	10.41	.76	.50	.017	.009	.013
11	0.0	0.00	7.62	0.00	7.62	3.74	7.62	1.698E-05	.010	.008	1.352E-08	10.41	.76	.50	.013	.006	.008
12	0.0	0.00	7.62	0.00	7.62	2.36	7.62	-1.255E-05	-.008	-.006	-9.548E-09	10.41	.76	.50	.010	-.004	-.006
13	0.0	0.00	7.62	0.00	7.62	1.16	7.62	3.481E-05	.022	.016	1.393E-08	10.41	.76	.50	.029	.012	.017
14	0.0	0.00	7.62	0.00	7.62	.33	7.62	8.654E-05	.054	.040	1.383E-08	10.41	.76	.50	.071	.029	.042
15	0.0	0.00	7.62	0.00	7.29	0.00	7.29	1.978E-03	.824	.652	1.232E-04	10.33	.76	.50		.662	
16	0.0	0.00	7.62	0.00	3.63	0.00	3.63	2.762E-03	1.163	1.021	2.509E-04	11.52	.82	.50		1.035	
17	0.0	0.00	7.62	0.00	0.00	0.00	0.00	2.698E-03	1.129	1.000	2.662E-04	11.52	.82	.50		1.000	
18	0.0	0.00	7.62	0.00	-3.54	0.00	-3.54	2.738E-03	1.164	1.017	2.496E-04	11.52	.82	.50		1.000	
19	0.0	0.00	7.62	0.00	-7.27	0.00	-7.27	2.051E-03	.852	.634	1.232E-04	10.35	.75	.50		.638	
21	0.0	0.00	7.62	0.00	-7.62	1.17	-7.62	8.990E-05	.055	.040	3.523E-07	10.24	.74	.50	.665	.026	.044
22	0.0	0.00	7.62	0.00	-7.62	2.39	-7.62	-2.987E-06	.011	.008	-2.744E-09	10.24	.74	.50	.013	-.001	-.001
23	0.0	0.00	7.62	0.00	-7.62	3.78	-7.62	2.627E-05	.009	.007	4.839E-08	10.24	.74	.50	.011	.001	.001
24	0.0	0.00	7.62	0.00	-7.62	5.07	-7.62	3.987E-05	.015	.009	2.587E-08	10.24	.74	.50	.015	.001	.002
25	0.0	0.00	7.62	0.00	-7.62	5.73	-7.62	4.701E-05	.018	.013	2.092E-08	10.24	.74	.50	.018	.002	.002
26	0.0	0.00	7.62	0.00	7.62	5.78	7.62	6.162E-06	.006	.005	2.136E-09	10.41	.76	.50	.005	.000	.000
27	0.0	0.00	7.62	0.00	7.62	5.84	7.62	4.211E-06	.005	.004	1.532E-09	10.41	.76	.50	.004	.000	.000
28	0.0	0.00	7.62	0.00	7.62	5.72	7.62	-8.472E-06	-.006	-.004	-3.028E-09	10.41	.76	.50	-.004	-.000	-.000
29	0.0	0.00	7.62	0.00	7.62	2.44	7.62	-2.178E-05	-.002	-.006	-4.017E-08	10.41	.76	.50	-.008	-.001	-.001
30	0.0	0.00	7.62	0.00	7.62	1.16	7.62	1.976E-05	.046	.036	6.307E-08	10.41	.76	.50	.058	.007	.009
31	0.0	0.00	7.62	0.00	7.62	.33	7.62	9.862E-04	.441	.344	3.367E-05	10.41	.76	.50	.478	.327	.436
32	0.0	0.00	7.24	0.00	7.24	0.00	7.24	2.235E-03	.923	.731	1.594E-04	10.31	.77	.50		.749	
33	0.0	0.00	3.71	0.00	3.71	0.00	3.71	2.653E-03	1.069	.937	2.386E-04	11.51	.82	.50		.940	
34	0.0	0.00	0.00	0.00	0.00	0.00	0.00	2.615E-03	1.021	.929	2.[illegible]E-04	11.51	.83	.50		.931	
35	0.0	0.00	-3.59	0.00	-3.59	0.00	-3.59	2.644E-03	1.116	.973	2.[illegible]E-04	11.51	.83	.50		.977	
36	0.0	0.00	-7.28	0.00	-7.28	0.00	-7.28	2.033E-03	.841	.675	1.[illegible]E-04	10.35	.75	.50		.645	
37	0.0	0.00	-7.62	0.00	-7.62	.37	-7.62	7.470E-04	.337	.247	1.700E-04	10.24	.74	.50		.248	
38	0.0	0.00	-7.62	0.00	-7.62	1.15	-7.62	8.174E-05	.041	.030	2.378E-07	10.24	.74	.50	.481	.030	.359
39	0.0	0.00	-7.62	0.00	-7.62	2.36	-7.62	1.738E-06	.010	.007	1.[illegible]E-08	10.24	.74	.50	.011	.002	.002
40	0.0	0.00	-7.62	0.00	-7.62	3.62	-7.62	6.931E-06	.004	.003	6.[illegible]E-08	10.24	.74	.50	.004	.001	.001
41	0.0	0.00	-7.62	0.00	-7.62	5.84	-7.62	9.759E-06	.005	.004	3.[illegible]E-09	10.24	.74	.50	.006	.001	.001
42	0.0	0.00	-7.62	0.00	-7.62	5.68	-7.62	5.112E-05	.203	.002	1.229E-06	10.24	.74	.50	.004	.016	.023
43	0.0	0.00	-7.35	0.00	-7.62	5.73	-7.62	1.415E-05	.001	.001	8.541E-10	10.41	.76	.50	.002	.005	.010



CFMT TEST (92), MDAC-E RSI GAPS, RUN (134) 1973 PAGE 221

SPECIFIC HEAT CORRECTED

3.4-267



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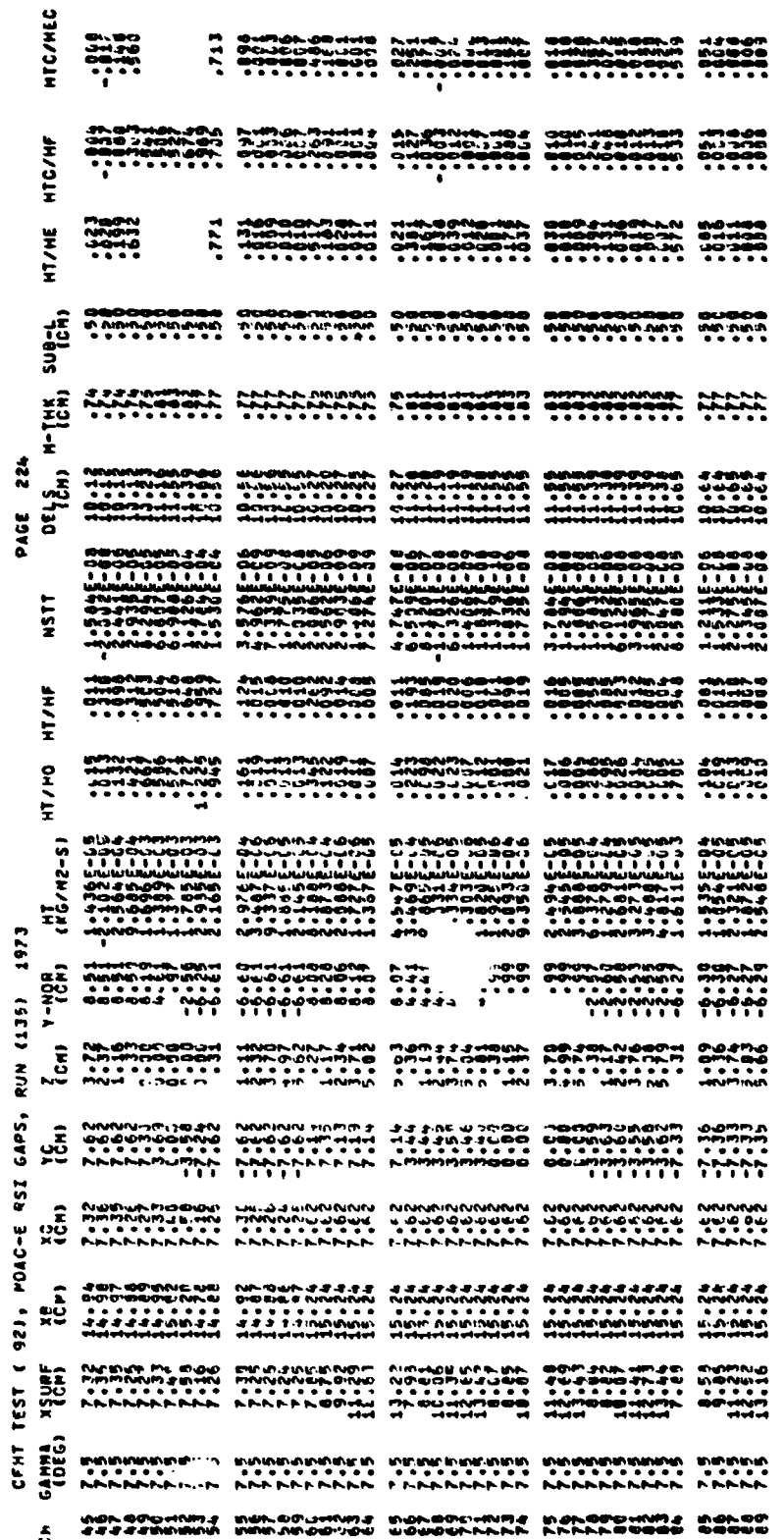
CFMT TEST (92), MDAC-E RSI GAPS, RUN (135) 1973 PAGE 223

MACH = 19.293 TT = 9.953E+02(K)
RX E06 = 3.361E-01 PI = 5.168E+06(N/M2)
RL E06 = 6.422E-02 TI = 4.693E+01(K)
RE/METER = 3.308E+07 PI = 9.128E+01(N/M2)
HO = 2.619E+08(N/M2-K) (RHO V)I = 1.933E+01(KG/M2-S)
TW = 299.8 (K) GAP = .711 (CM)
STEP = 2.908(CM) CONF =IN-L

TAW/TT =0.895 FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 OR 90.0EG) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF,GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	7.5	3.03	7.62	0.00	7.62	5.79	7.55	2.076E-03	.014	.011	3.179E-06	10.47	.76	.50	.013	.010	.011
10	7.5	3.03	7.62	0.00	7.62	5.83	7.55	1.894E-03	.013	.010	1.938E-06	10.47	.76	.50	.012	.009	.010
11	7.5	3.03	7.62	0.00	7.62	5.79	7.55	4.068E-03	.028	.021	1.772E-06	10.47	.76	.50	.026	.019	.020
12	7.5	3.03	7.62	0.00	7.62	2.36	7.55	1.968E-03	.014	.010	2.772E-06	10.47	.76	.50	.013	.009	.010
13	7.5	3.03	7.62	0.00	7.62	1.16	7.55	2.329E-04	.016	.001	1.765E-06	10.47	.76	.50	.015	.001	.001
14	7.5	3.48	7.62	1.00	7.62	.33	7.55	1.885E-03	.013	.010	7.489E-05	10.47	.76	.50	.012	.009	.010
15	7.5	3.48	7.62	1.00	7.62	2.53	7.55	2.079E-03	.014	.011	2.347E-06	10.47	.76	.50	.013	.010	.011
16	7.5	3.48	7.62	1.00	7.62	5.33	7.55	2.026E-03	.014	.011	2.338E-06	10.47	.76	.50	.013	.010	.011
17	7.5	3.48	7.62	1.00	7.62	4.13	7.55	2.157E-03	.015	.011	2.315E-06	10.47	.76	.50	.014	.010	.011
18	7.5	3.48	7.62	1.00	7.62	2.93	7.55	2.057E-03	.014	.011	2.155E-06	10.47	.76	.50	.013	.010	.011
19	7.5	3.48	7.62	1.00	7.27	2.48	7.20	1.859E-03	.013	.010	4.159E-06	10.47	.76	.50	.012	.009	.010
20	7.5	0.00	7.62	0.00	-7.62	1.17	-7.55	2.495E-03	.017	.013	9.673E-06	10.26	.75	.50	.016	.012	.013
21	7.5	0.00	7.62	0.00	-7.62	3.79	-7.55	2.420E-03	.016	.012	1.194E-06	10.26	.75	.50	.015	.011	.012
22	7.5	0.00	7.62	0.00	-7.62	5.07	-7.55	2.398E-03	.016	.012	1.194E-06	10.26	.75	.50	.015	.011	.012
23	7.5	0.00	7.62	0.00	-7.62	5.74	-7.55	2.896E-03	.020	.014	1.503E-07	10.26	.75	.50	.018	.013	.014
24	7.5	0.00	7.62	0.00	-7.62	6.94	-7.55	2.896E-03	.020	.014	1.503E-07	10.26	.75	.50	.018	.013	.014
25	7.5	0.00	7.62	0.00	-7.62	5.74	-7.55	2.896E-03	.020	.014	1.503E-07	10.26	.75	.50	.018	.013	.014
26	7.5	0.00	7.62	0.00	-7.62	6.94	-7.55	2.896E-03	.020	.014	1.503E-07	10.26	.75	.50	.018	.013	.014
27	7.5	0.00	7.62	0.00	-7.62	5.74	-7.55	2.896E-03	.020	.014	1.503E-07	10.26	.75	.50	.018	.013	.014
28	7.5	0.00	7.62	0.00	-7.62	6.94	-7.55	2.896E-03	.020	.014	1.503E-07	10.26	.75	.50	.018	.013	.014
29	7.5	0.00	7.62	0.00	-7.62	5.74	-7.55	2.896E-03	.020	.014	1.503E-07	10.26	.75	.50	.018	.013	.014
30	7.5	0.00	7.62	0.00	-7.62	6.94	-7.55	2.896E-03	.020	.014	1.503E-07	10.26	.75	.50	.018	.013	.014
31	7.5	0.00	7.62	0.00	-7.62	5.74	-7.55	2.896E-03	.020	.014	1.503E-07	10.26	.75	.50	.018	.013	.014
32	7.5	0.00	7.62	0.00	-7.62	6.94	-7.55	2.896E-03	.020	.014	1.503E-07	10.26	.75	.50	.018	.013	.014
33	7.5	0.00	7.62	0.00	-7.62	5.74	-7.55	2.896E-03	.020	.014	1.503E-07	10.26	.75	.50	.018	.013	.014
34	7.5	0.00	7.62	0.00	-7.62	6.94	-7.55	2.896E-03	.020	.014	1.503E-07	10.26	.75	.50	.018	.013	.014
35	7.5	3.09	11.51	3.89	-3.53	0.00	-3.45	2.835E-03	.019	.014	2.916E-06	10.32	.82	.50	.017	.012	.013
36	7.5	3.09	11.51	3.89	-3.53	1.20	-3.45	2.835E-03	.019	.014	2.916E-06	10.32	.82	.50	.017	.012	.013
37	7.5	3.09	11.51	3.89	-3.53	2.40	-3.45	2.835E-03	.019	.014	2.916E-06	10.32	.82	.50	.017	.012	.013
38	7.5	3.09	11.51	3.89	-3.53	3.60	-3.45	2.835E-03	.019	.014	2.916E-06	10.32	.82	.50	.017	.012	.013
39	7.5	3.09	11.51	3.89	-3.53	4.80	-3.45	2.835E-03	.019	.014	2.916E-06	10.32	.82	.50	.017	.012	.013
40	7.5	3.09	11.51	3.89	-3.53	6.00	-3.45	2.835E-03	.019	.014	2.916E-06	10.32	.82	.50	.017	.012	.013
41	7.5	3.09	11.51	3.89	-3.53	7.20	-3.45	2.835E-03	.019	.014	2.916E-06	10.32	.82	.50	.017	.012	.013
42	7.5	3.09	11.51	3.89	-3.53	8.40	-3.45	2.835E-03	.019	.014	2.916E-06	10.32	.82	.50	.017	.012	.013
43	7.5	7.35	14.97	7.35	7.62	4.91	8.51	2.394E-03	.016	.012	2.880E-08	10.12	.74	.50	.014	.010	.011


CFHT TEST (92), MOAC-E RSI GAPS, RUN (135) 1973
PAGE 224
CH GAMMA (DEG)
XSURF (CM)
XB (CM)
XC (CM)
XC (CM)
Z (CM)
Y-NOR (CM)
HT (KG/M2-SI)
HT/HO
HT/HF
NSTT
DELS (CM)
M-THK (CM)
SUB-L (CM)
HT/HE
HTC/HF
HTC/HEC

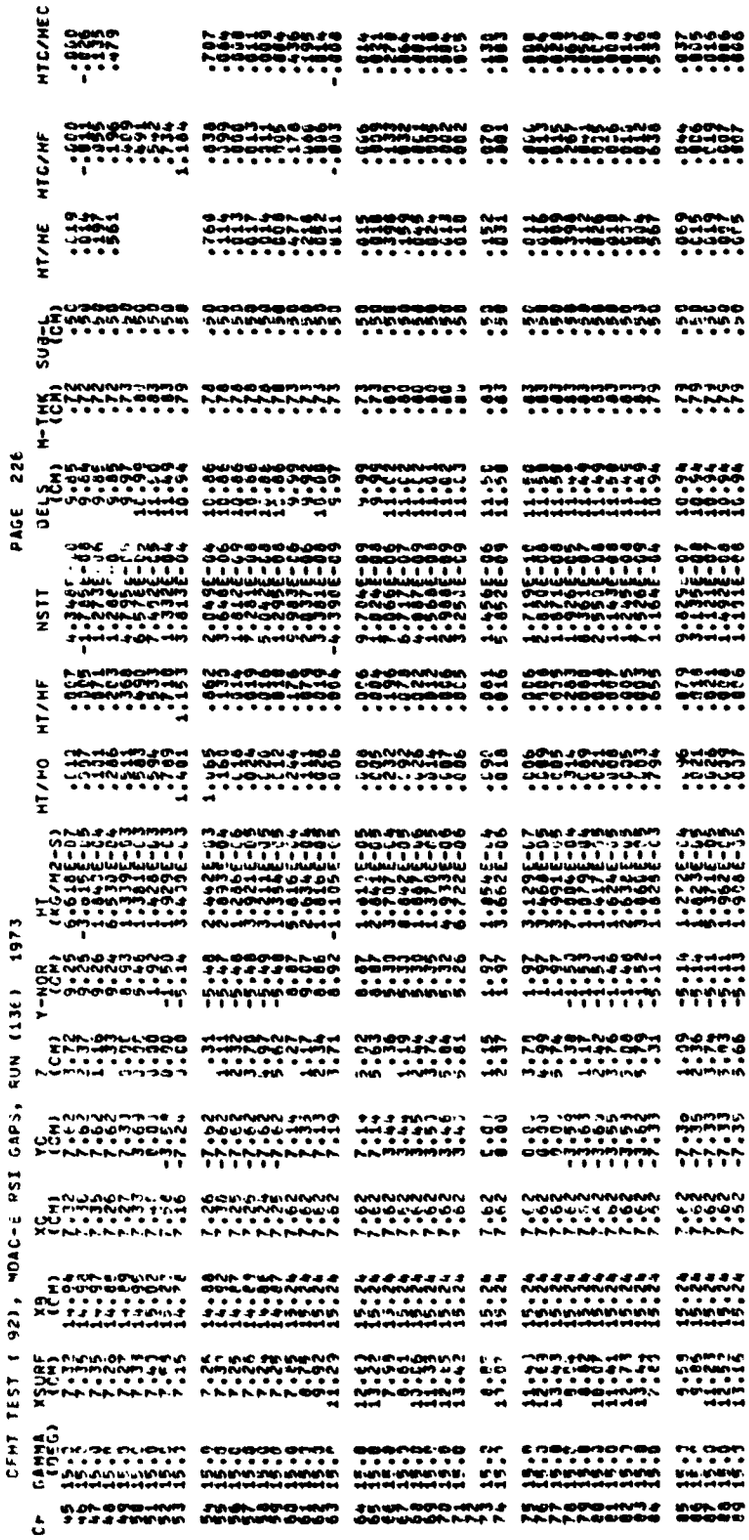
3.4-270

CFHT TEST (92), MDAC-E RSI GAPS, RUN (136) 1973 PAGE 225

MACH = 12.230 TT = 9.956E+02(K)
RX E-6 = 3.358E-01 PI = 5.109E+01(N/M2)
RL E-6 = 6.398E-02 TI = 4.666E+01(K)
RE/METER = 3.308E+06 PI = 9.611E+01(N/M2)
HO = 2.619E+07(W/M2-K) (RHO V)1 = 1.033E-01(KG/M2-S)
TW = 1811.2 (K) GAP = .711 (CM)
STEP = 0.939(CM) CONF =IN-L

IAW/TT =0.995 FOR HT/HO TILE COORDINATES(GAMMA=C,U
XSURF =SURFACE DISTANCE X8 = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0. OR 90 DEG.) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CP	GAMMA (DEG)	XSURF (CM)	X8 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	15.0	0.00	7.62	0.00	7.62	5.70	7.36	2.312E-05	.010	.010	1.849E-08	10.49	.76	.50	.018	.018	.018
11	15.0	0.00	7.62	0.00	7.62	5.03	7.36	3.379E-05	.018	.014	4.546E-08	10.49	.76	.50	.017	.014	.014
12	15.0	0.00	7.62	0.00	7.62	3.74	7.36	1.322E-05	.014	.011	1.442E-08	10.49	.76	.50	.014	.011	.011
13	15.0	0.00	7.62	0.00	7.62	2.36	7.36	4.486E-05	.031	.024	5.696E-08	10.49	.76	.50	.031	.024	.024
17	15.0	0.00	7.62	0.00	7.62	1.14	7.36	2.380E-04	.128	.101	2.337E-06	10.49	.76	.50	.128	.079	.100
14	15.0	0.00	7.62	0.00	7.62	.33	7.36	1.294E-03	.563	.444	5.585E-05	10.49	.76	.50	.561	.432	.544
15	15.0	0.00	7.62	0.00	7.29	0.00	7.04	2.352E-03	1.003	.808	1.831E-04	10.59	.77	.50		.784	
16	15.0	0.00	7.62	0.00	3.63	0.00	3.61	2.084E-03	1.219	1.072	1.887E-04	11.11	.81	.50		1.043	
17	15.0	0.00	7.62	0.00	0.00	0.00	0.00	1.793E-03	1.164	1.087	1.955E-04	11.11	.81	.50		1.057	
18	15.0	0.00	7.62	-3.63	0.00	-3.63	3.61	1.901E-03	1.098	1.058	1.897E-04	11.11	.81	.50		1.029	
19	15.0	0.00	7.62	-7.27	0.00	-7.27	7.22	1.755E-03	1.014	1.208	4.413E-04	11.11	.76	.50		1.197	
20	15.0	0.00	7.62	-7.62	0.00	-7.62	7.36	1.854E-03	1.071	1.276	2.087E-04	11.11	.73	.50	.001	1.241	.001
21	15.0	0.00	7.62	-7.62	1.47	-7.36	7.36	1.854E-03	1.071	1.276	2.087E-04	11.11	.73	.50	.001	1.241	.001
22	15.0	0.00	7.62	-7.62	3.78	-7.36	7.36	1.871E-03	1.081	1.294	2.254E-04	10.92	.75	.50	.002	1.259	.002
24	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
25	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
26	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
27	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
28	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
29	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
30	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
31	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
32	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
33	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
34	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
35	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
36	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
37	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
38	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
39	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
40	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
41	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
42	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
43	15.0	0.00	7.62	1.03	-7.62	5.27	-7.36	3.683E-05	.009	.007	2.379E-08	10.92	.75	.50	.006	.012	.010
44	15.0	7.33	14.95	7.33	7.62	4.91	9.26	2.889E-05	.014	.010	2.686E-08	9.85	.72	.50	.026	.009	.021



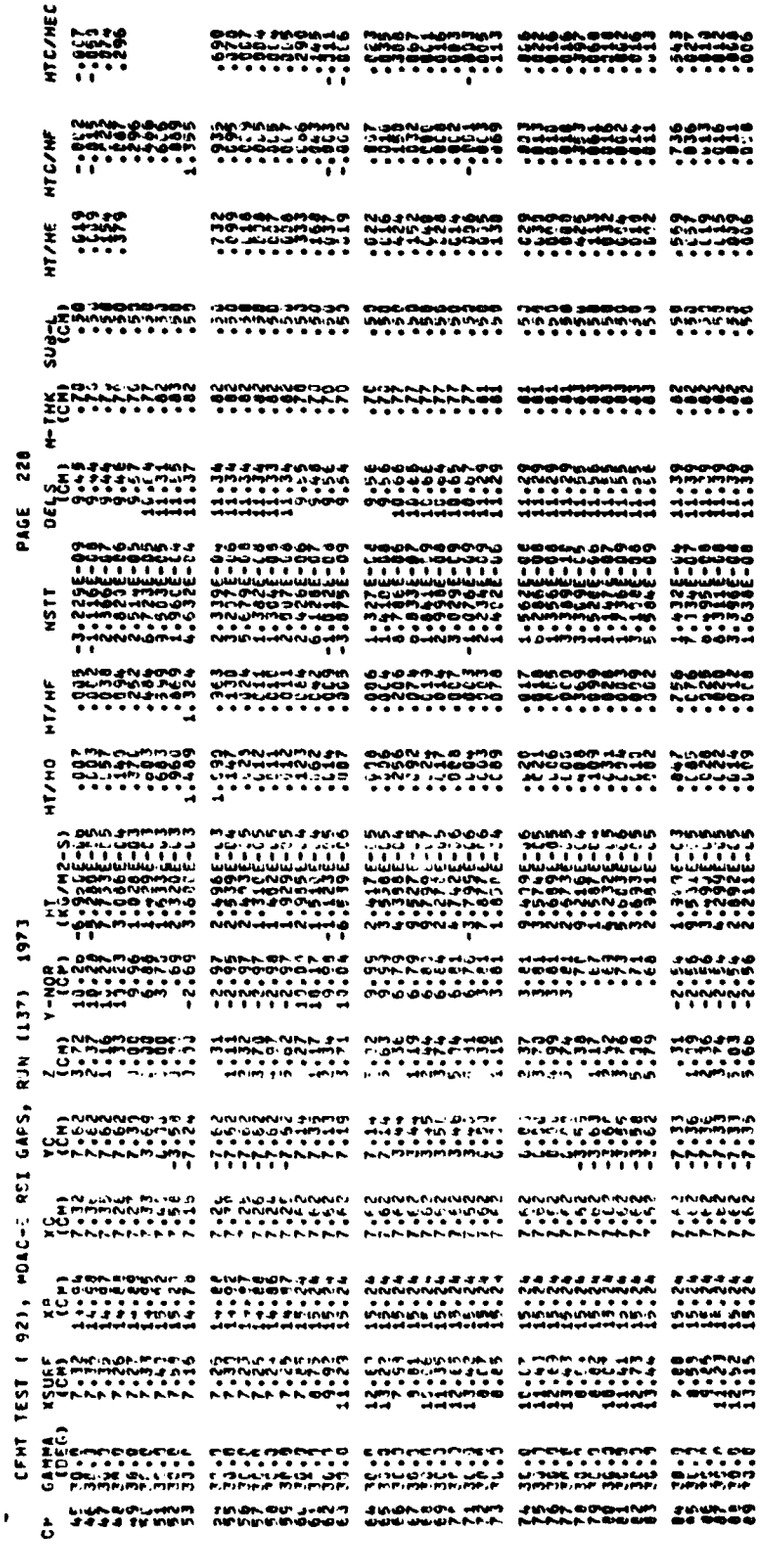
CFHT TEST (92), MDAC-E RSI GAPS, RUN (137) 1973 PAGE 227

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MACH      = 10.297                TT         =  9.955E+02(K)
PX E05    =  3.362E-01            PI         =  5.174E+06(N/M2)
RL E06    =  8.445E-02            T1         =  4.686E+01(K)
RE/METER  =  3.309E+06            P1         =  9.833E+01(N/M2)
HO        =  2.619E+00(W/M2-K)    (RHO V)1   =  1.334E+01(KG/M2-S)
TW        =  300.2  (K)           GAP        =  .711  (CM)
STEP      =  0.000(CM)            CONF       = IN-L

 TAW/TT =0.895 FOR HT/HO          TILE COORDINATES(GAMMA=0.0
XSURF   =SURFACE DISTANCE             XB = X-COOR. FROM TILE L.E.
         (FLOW DIRECTION)             XC = X-COOR. FROM TILE CENTER
         (0.0 OR 90 DEG.)             YC = Y-COOR. FROM TILE CENTER      SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF,GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE
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CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	30.0	0.03	7.62	0.00	7.62	5.70	6.63	1.899E-05	.009	.007	1.329E-08	10.71	.78	.50	.011	.007	.010
10	30.0	0.03	7.62	0.00	7.62	5.03	6.60	2.23[illegible]E-05	.013	.010	2.271E-08	10.71	.78	.50	.016	.010	.011
11	30.0	0.03	7.62	0.00	7.62	3.74	6.60	2.285E-05	.019	.015	3.350E-08	10.71	.78	.50	.022	.014	.012
12	30.0	0.04	7.62	0.00	7.62	2.36	6.60	3.133E-05	.035	.028	8.559E-08	10.71	.78	.50	.042	.011	.016
13	30.0	0.07	7.62	0.00	7.62	1.14	6.60	1.939E-04	.112	.091	1.767E-06	10.71	.78	.50	.135	.069	.102
14	30.0	0.07	7.62	0.00	7.62	.33	6.60	9.721E-04	.427	.346	3.268E-05	10.71	.78	.50	.513	.334	.495
15	30.0	0.07	7.62	1.00	7.29	0.00	6.32	1.944E-03	.832	.682	1.208E-04	10.78	.78	.50		.674	
16	30.0	0.03	7.62	0.00	3.63	0.00	3.15	2.840E-03	1.200	1.061	2.928E-04	11.30	.82	.50		1.063	
17	30.0	0.00	7.62	0.00	0.00	0.00	0.00	2.792E-03	1.191	1.084	2.941E-04	11.56	.83	.50		1.078	
18	30.0	0.03	7.62	0.00	-3.54	0.00	-3.07	2.851E-03	1.225	1.080	2.994E-04	11.32	.81	.50		1.069	
19	30.0	0.07	7.62	0.00	-7.27	0.00	-6.29	3.764E-03	1.603	1.252	4.580E-04	10.64	.77	.50		1.245	
20	30.0	0.03	7.62	0.00	-7.62	.41	-6.60	4.031E-07	.000	.000	5.066E-12	10.56	.77	.50	.000	.000	.000
21	30.0	0.03	7.62	0.00	-7.62	1.17	-6.60	2.399E-04	.122	.095	2.101E-06	10.56	.77	.50	.076	.078	.083
22	30.0	0.03	7.62	0.00	-7.62	2.39	-6.60	2.617E-05	.029	.022	9.607E-08	10.56	.77	.50	.018	.009	.007
23	30.0	0.03	7.62	0.00	-7.62	3.70	-6.60	5.418E-05	.025	.019	1.022E-07	10.56	.77	.50	.016	.018	.014
24	30.0	0.03	7.62	0.00	-7.62	5.07	-6.60	5.834E-05	.018	.014	7.731E-08	10.56	.77	.50	.011	.019	.015
25	30.0	0.04	7.62	0.00	-7.62	5.73	-6.60	6.398E-05	.016	.012	7.474E-08	10.56	.77	.50	.010	.021	.017
26	30.0	3.76	11.38	3.76	7.62	5.70	6.60	1.244E-05	.006	.005	5.575E-09	10.13	.74	.50	.008	.004	.007
27	30.0	3.81	11.42	3.81	7.62	5.04	6.50	1.269E-05	.009	.007	8.375E-09	10.12	.74	.50	.012	.004	.007
28	30.0	3.75	11.38	3.76	7.62	3.72	6.48	1.131E-05	.015	.011	1.247E-08	10.13	.74	.50	.020	.034	.006
29	30.0	3.81	11.43	3.81	7.62	2.44	6.51	-1.691E-06	.024	.017	-2.856E-09	10.12	.74	.50	.032	-.001	-.001
30	30.0	3.83	11.45	3.83	7.63	1.15	6.51	1.201E-04	.079	.058	6.787E-07	10.12	.74	.50	.106	.038	.064
31	30.0	3.87	11.49	3.87	7.62	.33	6.53	7.414E-04	.327	.241	1.740E-05	10.11	.74	.50	.441	.232	.396
32	30.0	3.79	11.41	3.79	7.24	0.00	6.17	1.829E-03	.742	.560	9.956E-05	10.24	.75	.50		.564	
33	30.0	3.92	11.54	3.92	3.71	0.00	5.17	2.541E-03	1.074	.911	2.256E-04	11.05	.83	.50		.912	
34	30.0	3.95	11.57	3.95	0.00	0.00	1.59	2.525E-03	1.069	.958	2.352E-04	11.50	.83	.50		.958	
35	30.0	3.89	11.51	3.89	-3.63	0.00	-1.17	3.127E-03	1.321	1.191	3.620E-04	11.51	.83	.50		1.194	
36	30.0	3.74	11.36	3.74	-7.29	0.00	-4.43	5.022E-03	2.094	1.773	6.656E-04	11.[illegible]9	.81	.50		1.830	
37	30.0	3.79	11.41	3.79	-7.62	.37	-4.73	3.061E-03	1.321	1.106	3.291E-04	11.03	.80	.50	.631	1.085	.603
38	30.0	3.74	11.36	3.74	-7.62	1.15	-4.73	2.762E-04	.159	.133	3.580E-06	11.03	.80	.50	.076	.098	.052
39	30.0	3.81	11.43	3.80	-7.62	2.35	-4.73	-1.23[illegible]E-05	.016	.013	-1.544E-08	11.03	.80	.50	.020	-.045	-.002
40	30.0	3.83	11.42	3.80	-7.62	3.62	-4.73	4.92[illegible]E-05	.021	.017	8.353E-08	11.03	.80	.50	.010	.017	.013
41	30.0	3.67	11.29	3.67	-7.62	5.04	-4.77	1.926E-05	.013	.011	2.782E-08	11.02	.80	.50	.006	.007	.005
42	30.0	3.62	11.24	3.62	-7.62	5.58	-4.75	3.694E-05	.006	.005	1.744E-08	11.02	.79	.50	.003	.013	.007
43	30.0	7.35	14.97	7.35	7.62	5.70	13.27	1.968E-05	.004	.002	4.499E-09	9.44	.70	.50	.010	.036	.019
44	30.0	7.33	14.95	7.33	7.62	4.91	13.26	1.328E-05	.007	.005	5.852E-09	9.44	.70	.50	.018	.004	.013

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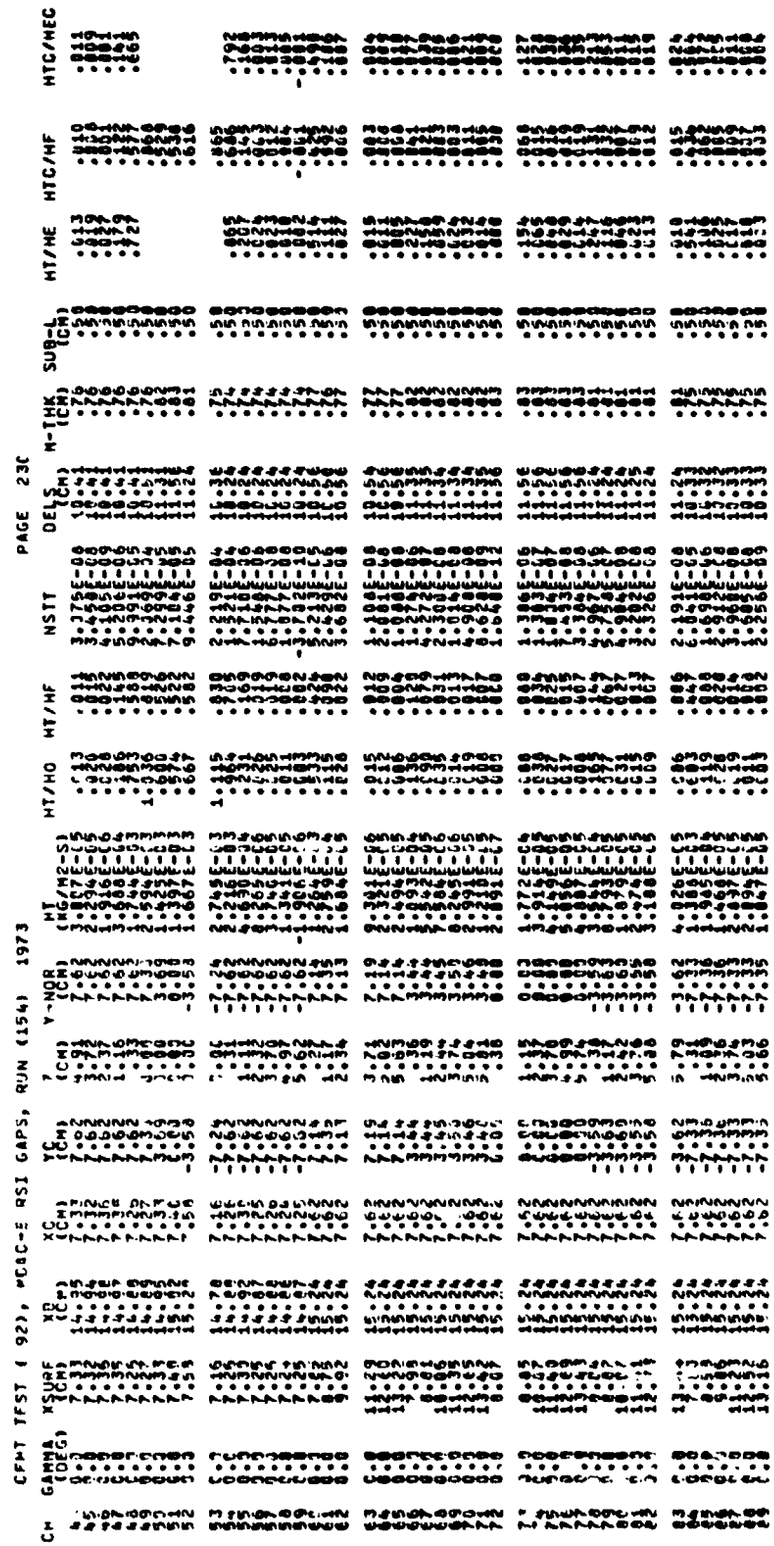
CFHT TEST (92), MDAC-E RSI GAPS, RUN (154) 1973 PAGE 229

MACH = 10.299 TI = 9.995E+02(K)
RX EPS = 3.139E-11 PI = 5.170E+06(N/M2)
RL EPS = 8.346E-12 TI = 4.797E+01(K)
RE/METER = 5.268E+07 PI = 9.842E+01(N/M2)
HO = 2.619E+07(M/M2-K) (RHO V)1 = 1.632E+01(KG/M2-S)
TW = 791.2 (K) GAP = .711 (CM)
STEP = .254(CM) CONF =IN-L

TAW/TT =0.99F FOR HT/HO TILE COORDINATES(GAMMA=(.0
XSURF =SURFACE DISTANCE X9 = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0 OR 90 DEG.) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED

HT/HF, GAP HEATING RATIOED TO EDGE AT TILE TOP
+TC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	X9 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	0.0	0.000	7.620	0.000	7.620	5.779	7.620	1.644E-04	.012	.009	1.653E-08	10.41	.76	.50	.008	.006	.006
11	0.0	0.000	7.620	0.000	7.620	3.683	7.620	2.653E-04	.019	.012	2.918E-08	10.41	.76	.50	.011	.008	.008
12	0.0	0.000	7.620	0.000	7.620	2.736	7.620	-1.420E-04	.010	.021	-5.461E-08	10.41	.76	.50	.011	-.006	-.006
12	0.0	0.000	7.620	0.000	7.620	2.362	7.620	-1.893E-04	.013	.012	-2.143E-08	10.41	.76	.50	.011	-.006	-.006
13	0.0	0.000	7.620	0.000	7.620	1.143	7.620	2.451E-04	.017	.026	2.018E-08	10.41	.76	.50	.018	.024	.025
14	0.0	0.000	7.620	0.000	7.620	1.333	7.620	3.955E-04	.027	.015	3.310E-08	10.41	.76	.50	.028	.014	.015
15	0.0	0.000	7.620	0.000	7.620	1.524	7.620	3.268E-04	1.392	1.118	3.501E-04	10.41	.76	.50		1.014	
16	0.0	0.000	7.620	0.000	7.620	1.714	7.620	3.057E-04	1.377	1.174	3.688E-04	10.41	.76	.50		1.174	
17	0.0	0.000	7.620	0.000	7.620	1.905	7.620	3.007E-04	1.344	1.178	3.448E-04	10.41	.76	.50		1.178	
18	0.0	0.000	7.620	0.000	7.620	2.095	7.620	3.049E-04	1.332	1.163	3.493E-04	10.41	.76	.50		1.163	
19	0.0	0.000	7.620	0.000	7.620	2.286	7.620	3.092E-04	1.312	1.125	3.839E-04	10.41	.76	.50		1.125	
20	0.0	0.000	7.620	0.000	7.620	.457	7.620	8.714E-04	.060	.060	2.281E-07	10.24	.76	.50	.060	.060	.060
22	0.0	0.000	7.620	0.000	7.620	1.219	7.620	2.841E-04	.019	.019	3.588E-08	10.24	.76	.50	.017	.006	.006
23	0.0	0.000	7.620	0.000	7.620	1.778	7.620	3.117E-04	.016	.012	3.638E-08	10.24	.76	.50	.011	.010	.010
24	0.0	0.000	7.620	0.000	7.620	2.032	7.620	3.446E-04	.017	.011	3.686E-08	10.24	.76	.50	.010	.009	.009
25	0.0	0.000	7.620	0.000	7.620	2.286	7.620	3.807E-04	.018	.012	3.784E-08	10.24	.76	.50	.011	.010	.010
26	0.0	0.000	7.620	0.000	7.620	2.540	7.620	4.221E-04	.020	.013	4.498E-08	10.24	.76	.50	.012	.011	.011
27	0.0	0.000	7.620	0.000	7.620	2.794	7.620	4.699E-04	.022	.015	4.778E-08	10.24	.76	.50	.014	.013	.013
28	0.0	0.000	7.620	0.000	7.620	3.048	7.620	5.259E-04	.025	.016	5.570E-08	10.24	.76	.50	.015	.014	.014
29	0.0	0.000	7.620	0.000	7.620	3.302	7.620	5.921E-04	.028	.018	6.637E-08	10.24	.76	.50	.017	.016	.016
30	0.0	0.000	7.620	0.000	7.620	3.556	7.620	6.713E-04	.032	.021	8.021E-08	10.24	.76	.50	.020	.018	.018
31	0.0	0.000	7.620	0.000	7.620	3.810	7.620	7.676E-04	.036	.024	9.851E-08	10.24	.76	.50	.023	.021	.021
32	0.0	0.000	7.620	0.000	7.620	4.064	7.620	8.879E-04	.042	.028	1.242E-07	10.24	.76	.50	.026	.025	.025
33	0.0	0.000	7.620	0.000	7.620	4.318	7.620	1.044E-03	.050	.033	1.600E-07	10.24	.76	.50	.031	.029	.029
34	0.0	0.000	7.620	0.000	7.620	4.572	7.620	1.252E-03	.060	.039	2.139E-07	10.24	.76	.50	.037	.035	.035
35	0.0	0.000	7.620	0.000	7.620	4.826	7.620	1.525E-03	.073	.048	2.966E-07	10.24	.76	.50	.045	.043	.043
36	0.0	0.000	7.620	0.000	7.620	5.080	7.620	1.894E-03	.091	.059	4.324E-07	10.24	.76	.50	.056	.053	.053
37	0.0	0.000	7.620	0.000	7.620	5.334	7.620	2.414E-03	.116	.076	6.637E-07	10.24	.76	.50	.071	.068	.068
38	0.0	0.000	7.620	0.000	7.620	5.588	7.620	3.180E-03	.153	.100	1.107E-06	10.24	.76	.50	.094	.089	.089
39	0.0	0.000	7.620	0.000	7.620	5.842	7.620	4.387E-03	.211	.138	1.978E-06	10.24	.76	.50	.129	.123	.123
40	0.0	0.000	7.620	0.000	7.620	6.096	7.620	6.419E-03	.309	.202	3.939E-06	10.24	.76	.50	.189	.180	.180
41	0.0	0.000	7.620	0.000	7.620	6.350	7.620	1.000E-02	.481	.315	8.000E-06	10.24	.76	.50	.294	.280	.280
42	0.0	0.000	7.620	0.000	7.620	6.604	7.620	1.750E-02	.842	.551	2.450E-05	10.24	.76	.50	.515	.490	.490
43	0.0	7.366	14.987	7.775	7.620	5.700	7.620	5.810E-05	.016	.012	5.971E-08	10.41	.76	.50	.015	.017	.019



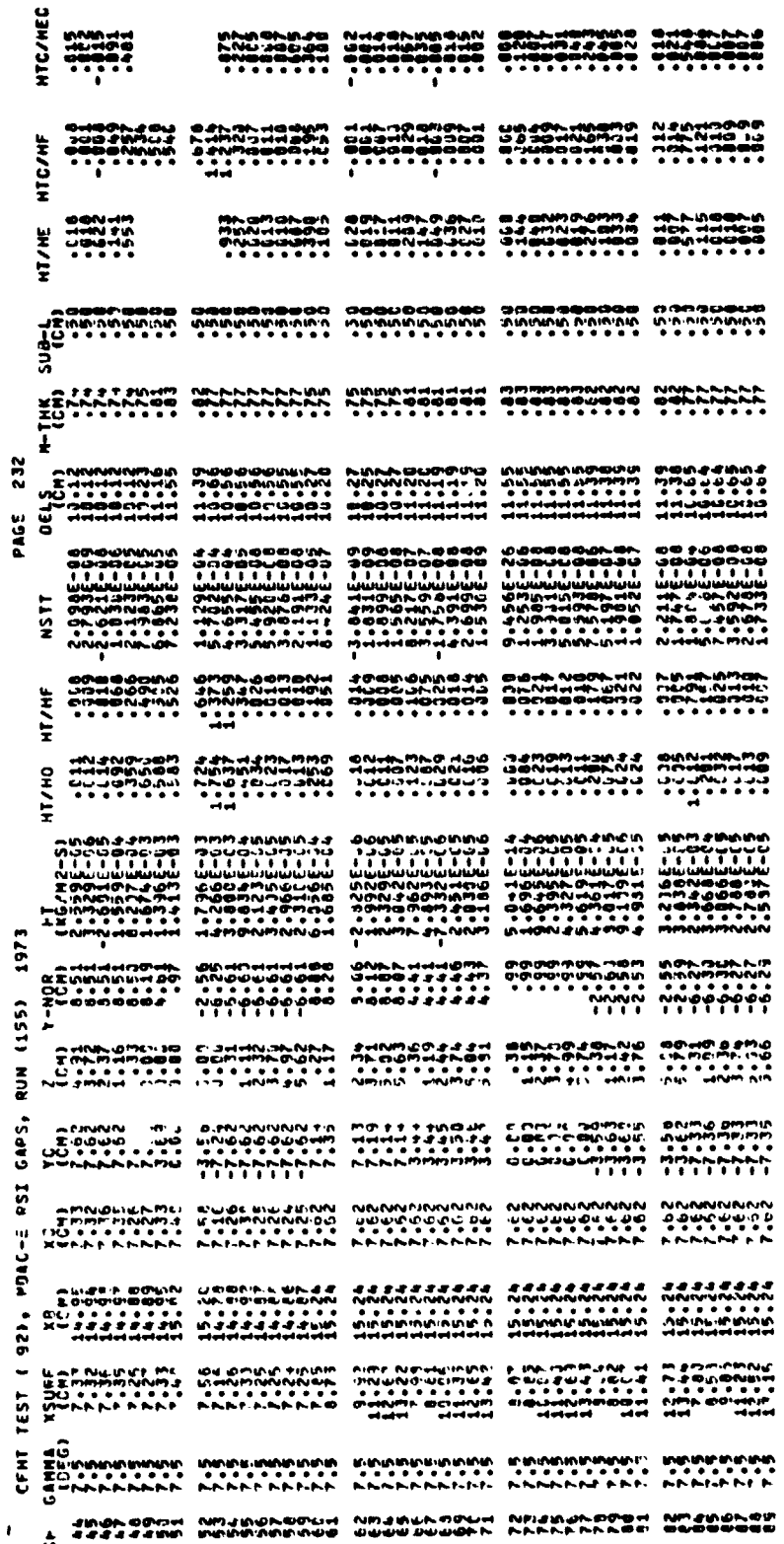
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OF POOR QUALITY

CFMT TEST (92), MDAC-E RSI GAPS, RUN (155) 1973 PAGE 231

SPECIFIC HEAT CORRECTED

I	GAMMA (DEG)	XSURF (CM)	XG (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	N-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
2	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
3	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
4	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
5	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
6	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
7	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
8	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
9	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
10	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
11	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
12	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
13	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
14	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
15	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
16	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
17	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
18	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
19	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
20	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
21	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
22	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
23	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
24	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
25	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
26	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
27	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
28	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
29	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
30	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
31	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
32	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
33	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
34	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
35	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
36	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
37	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
38	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
39	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
40	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
41	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
42	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112
43	7.5	7.62	7.62	7.62	5.79	7.55	5.49E+05	.446	.812	3.49E-03	.443	.76	.50	.113	.116	.112

3.4-339

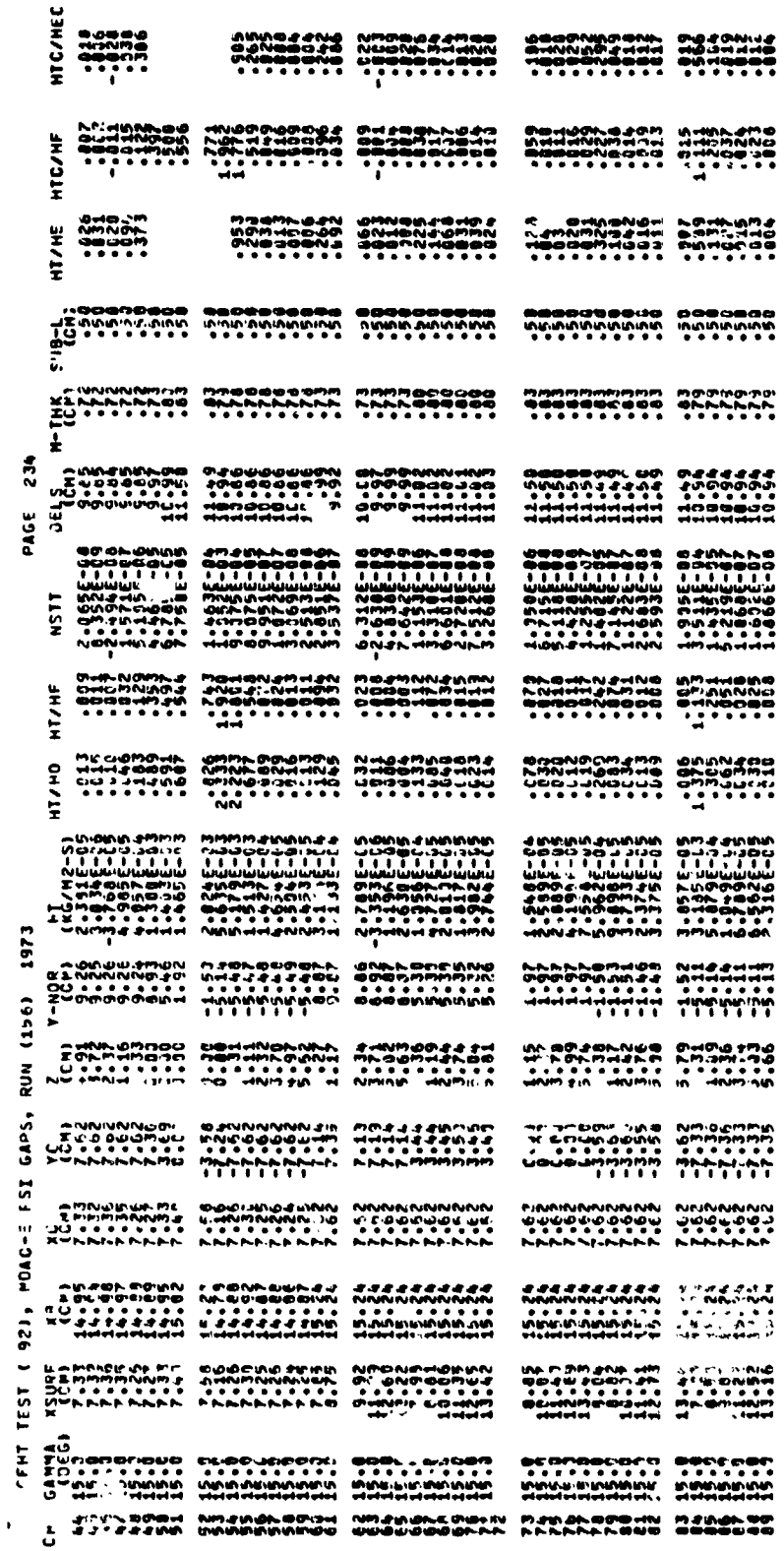


CFHT TEST (92), MDAC-E RSI GAPS, RUN (156) 1973 PAGE 233

MACH = 10.290 TT = 9.987E+02(K)
RX E06 = 3.344E-01 PI = 5.173E+01(N/M2)
RL E06 = 8.365E-02 TI = 4.702E+01(K)
RE/METER = 3.291E+06 PI = 9.965E+01(N/M2)
HO = 2.66 E+11(W/M2-K) (RHO V)1 = 1.033E+01(KG/M2-S)
TW = 300.0 (K) GAP = .711 (CM)
STEP = .254(CM) CONF =IN-L

TAW/TT =0.945 FOR HT/HO TILE COORDINATES(GAMMA=0.)
XSURF =SURFACE DISTANCE X9 = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 OR 90 DEG) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED
HT/HE- GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

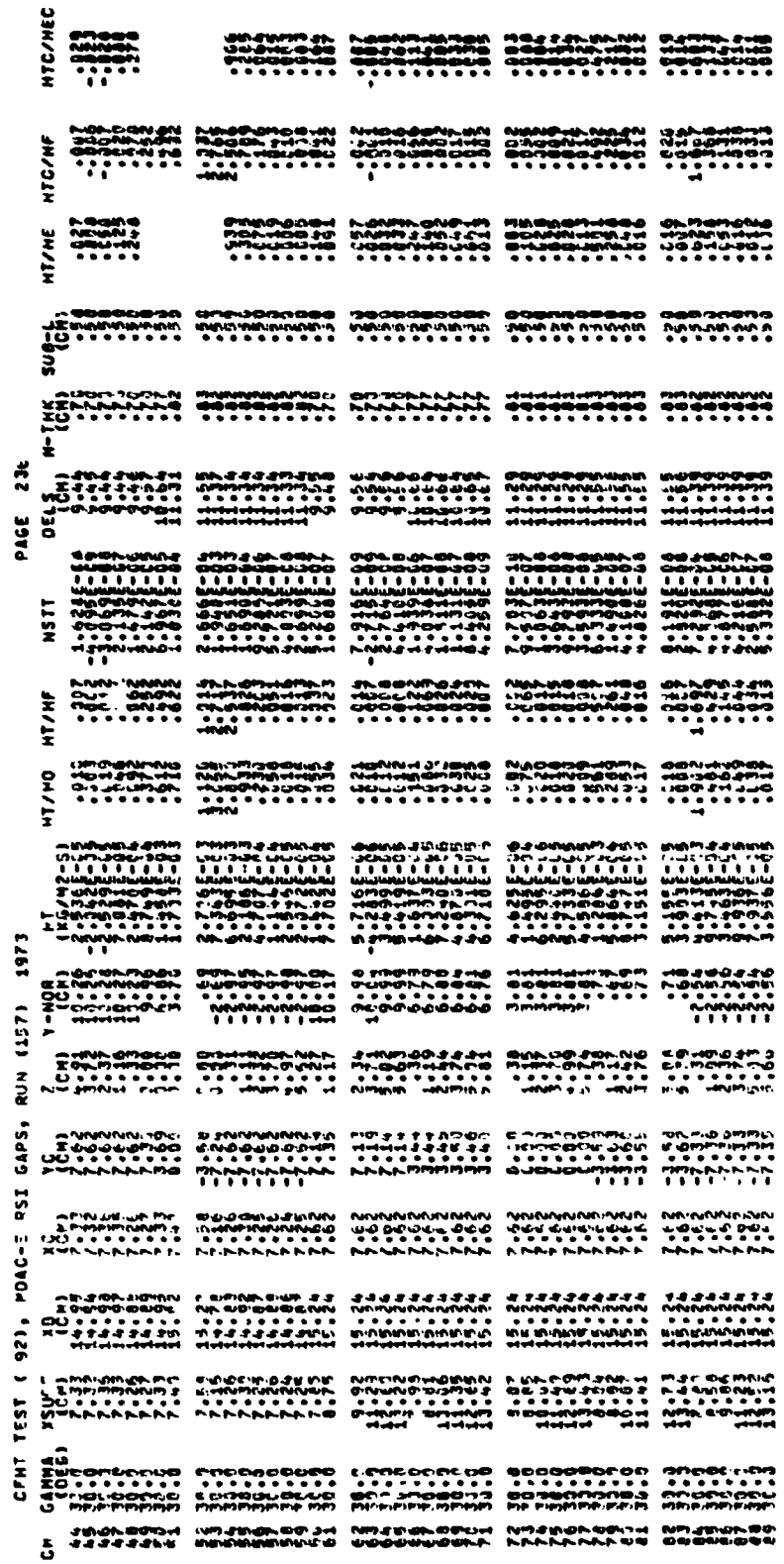
CP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	4-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	12.8	7.87	7.62	-.09	7.62	5.74	7.36	1.713E-05	.009	.017	1.238E-08	10.49	.76	.50	.019	.016	.017
10	14.0	8.01	7.62	0.00	7.62	5.33	7.36	1.779E-05	.010	.018	1.660E-08	10.49	.76	.50	.012	.006	.007
11	15.8	8.07	7.62	0.00	7.62	3.74	7.36	2.429E-05	.024	.016	3.724E-08	10.49	.76	.50	.019	.010	.010
12	15.8	8.01	7.62	0.00	7.62	2.36	7.36	2.319E-05	.022	.025	5.614E-08	10.49	.76	.50	.030	.008	.009
13	15.8	8.01	7.62	0.00	7.62	1.14	7.36	1.661E-05	.009	.078	1.268E-06	10.49	.76	.50	.094	.055	.057
14	15.8	8.01	7.62	0.00	7.62	.33	7.36	1.225E-05	.535	.422	5.324E-05	10.49	.76	.24	.507	.409	.493
15	15.8	8.01	7.62	0.00	7.29	0.00	7.04	2.458E-03	1.054	.841	2.011E-04	10.59	.77	.50		.830	
16	15.8	8.01	7.62	0.00	3.63	0.00	3.51	3.148E-03	1.333	1.172	3.598E-04	11.34	.82	.50		1.172	
17	15.8	8.01	7.62	0.00	0.00	0.00	0.00	2.388E-03	1.241	1.166	3.391E-04	11.56	.83	.50		1.151	
18	15.8	8.01	7.62	0.00	-3.54	0.00	-3.42	2.969E-03	1.268	1.128	3.258E-04	11.27	.81	.50		1.101	
49	15.8	8.01	7.62	0.00	-7.27	0.00	-7.02	6.832E-03	2.577	1.941	1.139E-03	10.43	.76	.50		1.923	
21	15.8	8.01	7.62	0.00	-7.62	1.17	-7.36	9.296E-04	.416	.388	2.788E-05	10.32	.75	.50	.161	.291	.151
22	15.8	8.01	7.62	0.00	-7.62	2.39	-7.36	2.867E-05	.029	.022	4.346E-08	11.32	.75	.50	.011	.006	.007
23	15.8	8.01	7.62	0.00	-7.62	3.78	-7.36	4.588E-05	.023	.017	7.443E-08	11.32	.75	.50	.009	.014	.007
24	15.8	8.01	7.62	0.00	-7.62	5.17	-7.36	5.102E-05	.018	.013	6.661E-08	10.32	.75	.50	.007	.010	.008
25	15.8	8.01	7.62	0.00	-7.62	6.43	-7.36	6.385E-05	.019	.014	8.785E-08	10.32	.75	.50	.007	.020	.010
26	15.8	11.78	11.78	4.16	7.62	5.76	8.33	3.743E-05	.017	.013	4.645E-08	10.18	.74	.50	.017	.012	.015
27	15.8	11.42	11.42	3.80	7.62	5.44	8.34	3.653E-05	.028	.015	5.247E-08	10.18	.74	.50	.020	.012	.015
28	15.8	11.78	11.78	4.16	7.62	3.72	8.33	1.709E-05	.014	.014	2.354E-08	10.18	.74	.50	.018	.006	.007
29	15.8	11.42	11.42	3.80	7.62	2.44	8.35	4.530E-06	.023	.019	6.178E-09	10.18	.74	.50	.025	.001	.001
30	15.8	11.45	11.45	3.83	7.62	1.16	8.35	9.607E-05	.069	.051	4.796E-07	10.17	.74	.50	.069	.030	.037
31	15.8	11.49	11.49	3.87	7.62	.33	8.36	1.075E-03	.469	.358	3.657E-05	10.17	.74	.50	.468	.348	.432
32	15.8	11.41	11.41	3.79	-.24	0.00	7.94	2.429E-03	1.001	.765	1.818E-04	11.38	.75	.50		.766	
33	15.8	11.54	11.54	3.92	3.71	0.00	4.68	2.671E-03	1.129	.971	2.522E-04	11.16	.81	.50		.972	
34	15.8	11.67	11.67	4.05	[illegible]	0.00	1.62	2.575E-03	1.091	.985	2.469E-04	11.55	.83	.50		.984	
35	15.8	11.61	11.61	3.89	-3.65	-2.46	2.99	2.959E-03	1.254	1.119	3.222E-04	11.48	.82	.50		1.118	
36	15.8	11.36	11.36	3.74	-7.28	-6.06	7.35	8.552E-03	3.573	2.425	1.735E-03	10.71	.78	.50		2.457	
37	15.8	11.41	11.41	3.79	-7.62	-6.38	6.32	6.321E-03	2.697	2.099	1.291E-03	10.62	.77	.50	.678	2.082	.848
38	15.8	11.34	11.34	3.72	-7.62	-6.38	1.45	1.455E-03	.651	.506	7.168E-05	10.62	.77	.50	.212	.475	.195
39	15.8	11.42	11.42	3.80	-7.62	-6.38	1.53	1.531E-04	.098	.376	1.139E-06	10.62	.77	.50	.132	.058	.023
41	15.8	11.42	11.42	3.80	-7.62	-6.38	6.26	6.261E-05	.042	.017	1.352E-07	10.62	.77	.50	.007	.021	.008
42	15.8	11.24	11.24	3.62	-7.62	-6.42	4.18	4.183E-05	.028	.015	6.472E-08	10.61	.77	.50	.006	.014	.006
43	15.8	14.87	14.87	7.25	-7.62	5.78	9.26	3.025E-05	.089	.006	1.910E-08	9.65	.72	.50	.019	.009	.023



SPECIFIC HEAT CORRECTED

CFMT TEST (92), MDAC-E RSI GAPS, R/N (157) 1973

3.0-313



ORIGINAL PAGE IS
OF POOR QUALITY

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CFHT TEST (92), MDAC-E RSI GAPS, RUN (11) 1373

MACH = 10.290
RX E06 = 6.315E+01
RE/METER = 2.615E+06
HNOT = 3.664E+07 (BTU/LB)
TWALL = 1.000 (TW/TAW)
STEP = 1.000 (C)

IT = 1.021E+03(K)
PT = 5.184E+02(N/M2)
TI = 4.813E+01(K)
DI = 9.822E+01(N/M2)
(RHO V)I = 1.088E-01(KG/M2-S)
GAD = .112 (CM)
CONF =IN-L

TILE COORDINATES(GAMMA=0.0
X9 = X-COOR. FROM TILE LE
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

IAM/TT =3.295 FOR HT/HO
XSURF =SURFACE DISTANCE
(FLOW ORIENTED)
HT/HE, GAP HEATING CORRECTED FOR EDGE AT TILE TOP
HTC/HEC, CONDUCTION CORRECTED HT/HE

GP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XG (CM)	YG (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THE (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
	0.0	0.00	7.62	-7.62	1.14	-7.62	5.428E-5	.023	.017	9.002E-08	10.24	.74	.50	.882	.862	.917	.824
	0.0	-3.83	3.79	-3.83	-7.62	1.15	-7.62	5.578E-05	.024	.017	9.003E-08	10.24	.74	.50	.883	.862	.917	.824
	0.0	-3.83	3.79	-3.83	-7.62	1.15	-7.62	5.578E-05	.024	.017	9.003E-08	10.24	.74	.50	.883	.862	.917	.824

CFHT TEST (92), MDAC-E RSI GAPS, RUN (11) 1973 PAGE 238

CM	GAMMA (DEG)	XSURF (CM)	X2 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUBTHK (CM)	HT/HE	HTC/HF	HTC/HEC
49	0.0	-7.35	.37	-7.62	-7.62	1.19	-7.62	6.393E-03	.020	.028	3.326E-07	10.24	.72	.50	.481	.428	.224
48	0.0	-7.35	.36	-7.62	-7.62	1.19	-7.62	6.393E-03	.020	.028	3.326E-07	10.24	.72	.50	.481	.428	.224
47	0.0	-7.29	.35	-7.62	-7.35	.30	-7.35	2.807E-03	.009	.011	1.332E-07	10.24	.72	.50	.481	.381	.224
46	0.0	-7.37	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
45	0.0	-7.37	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
44	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
43	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
42	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
41	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
40	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
39	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
38	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
37	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
36	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
35	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
34	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
33	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
32	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
31	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
30	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
29	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
28	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
27	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
26	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
25	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
24	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
23	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
22	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
21	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
20	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
19	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
18	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
17	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
16	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
15	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
14	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
13	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
12	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
11	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
10	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
9	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
8	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
7	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
6	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
5	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
4	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
3	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
2	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
1	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
0	0.0	-7.38	.33	-7.62	-3.69	0.00	-3.69	2.193E-03	.007	.009	1.041E-07	10.33	.73	.50	.481	.749	.224
49	0.0	-13.16	3.21	-7.62	7.35	5.66	7.35	3.405E-06	.002	.001	4.773E-10	13.50	.76	.50	.002	.031	.002

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CFHT TEST (92), MDAC-E RSI GAPS, RUN (12) 1973 PAGE 239

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MACH      = 10.290              TT        =  1.024E+03(K)
RX EG6    =  3.184E-01          PI        =  5.144E+06(N/M2)
RL EG6    =  7.966E-02          TI        =  4.832E+01(K)
RE/METER  =  3.136E+06          PI        =  9.818E+01(N/M2)
HO        =  2.619E+00(W/M2-K)  (RHO V)1  =  1.016E+01(KG/M2-S)
TW        =  308.1 (K)          GAP       =   .127 (CM)
STEP      =  0.58 (CM)          CONF      = IN-L

 TAW/TT =0.995 FOR HT/HO        TILE COORDINATES(GAMMA=0.0
XSURF  =SURFACE DISTANCE           XB = X-COOR. FROM TILE L.E.
        (FLOW DIRECTION)          XC = X-COOR. FROM TILE CENTER
        (0.0 OR 90 DEG )         YC = Y-COOR. FROM TILE CENTER      SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF,GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE
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CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	7.5	0.63	7.62	4.30	-7.62	5.76	-7.55	3.527E-06	.001	.001	3.028E-10	10.26	.75	.50	.002	.001	.002
10	7.5	0.00	7.62	0.00	-7.62	5.03	-7.55	2.133E-06	.001	.001	1.398E-10	10.26	.75	.50	.001	.001	.001
13	7.5	0.05	7.62	3.33	-7.62	1.14	-7.55	5.275E-05	.022	.016	8.546E-08	10.26	.75	.50	.024	.016	.023
14	7.5	0.03	7.62	0.33	-7.62	.33	-7.55	1.076E-03	.455	.336	3.552E-05	10.26	.75	.50	.483	.336	.478
15	7.5	0.04	7.62	3.30	-7.29	0.30	-7.22	2.228E-03	.943	.703	1.548E-04	10.37	.75	.50		.703	
16	7.5	0.00	7.62	0.00	-3.63	0.00	-3.63	2.741E-03	1.161	1.012	2.744E-04	11.24	.81	.50		1.012	
17	7.5	0.00	7.62	0.00	0.00	0.00	0.00	2.714E-03	1.149	1.046	2.807E-04	11.56	.83	.50		1.046	
18	7.5	0.00	7.62	0.00	3.54	0.00	3.51	2.728E-03	1.155	1.018	2.750E-04	11.34	.82	.50		1.018	
19	7.5	0.05	7.62	0.30	7.27	0.00	7.22	2.368E-03	1.003	.795	1.862E-04	10.54	.77	.50		.795	
20	7.5	0.63	7.62	4.00	7.62	.41	7.55	9.783E-04	.414	.324	3.130E-05	10.43	.76	.50	.413	.324	.400
21	7.5	0.03	7.62	0.06	7.62	1.17	7.55	5.723E-05	.024	.019	1.074E-07	10.43	.76	.50	.024	.019	.024
25	7.5	0.60	7.62	3.90	7.62	5.73	7.55	9.444E-06	.004	.003	2.924E-09	10.43	.76	.50	.004	.003	.004
27	7.5	-3.80	3.82	-3.80	-7.62	5.04	-8.05	1.786E-07	.000	.000	9.520E-13	10.09	.73	.50	.000	.000	.000
30	7.5	-3.83	3.79	-3.83	-7.62	1.16	-8.05	5.640E-05	.024	.017	9.409E-08	10.09	.73	.50	.024	.017	.023
31	7.5	-3.87	3.75	-3.87	-7.62	.33	-8.06	1.236E-03	.523	.373	4.555E-05	10.09	.73	.50	.519	.373	.507
32	7.5	-3.79	3.83	-3.79	-7.24	0.30	-7.67	2.382E-03	1.009	.738	1.731E-04	10.22	.74	.50		.738	
33	7.5	-3.92	3.70	-3.92	-3.71	0.00	-4.19	2.772E-03	1.173	1.003	2.750E-04	11.15	.80	.50		1.003	
34	7.5	-3.95	3.67	-3.95	0.00	0.30	-.52	2.743E-03	1.161	1.052	2.885E-04	11.55	.83	.50		1.052	
35	7.5	-3.89	3.73	-3.83	3.59	0.00	3.05	2.835E-03	1.198	1.061	2.969E-04	11.39	.82	.50		1.061	
36	7.5	-3.74	3.88	-3.74	7.29	0.30	6.73	2.401E-03	1.016	.820	1.940E-04	10.68	.78	.50		.820	
37	7.5	-3.79	3.83	-3.79	7.62	.37	7.06	1.046E-03	.443	.353	3.654E-05	10.58	.77	.50	.436	.353	.430
38	7.5	-3.74	3.88	-3.74	7.52	1.15	7.07	3.760E-05	.016	.013	4.710E-08	10.58	.77	.50	.016	.013	.015
41	7.5	-3.67	3.95	-3.67	7.62	5.04	7.88	9.255E-06	.004	.003	2.888E-09	10.58	.77	.50	.004	.003	.004
43	7.5	7.35	.27	-7.35	-7.62	5.70	-8.51	4.952E-07	.000	.000	7.127E-12	9.92	.72	.50	.000	.000	.000

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CFHT TEST (92), MDAC-E RSI GAPS, RUN (12) 1973 PAGE 240

CP	GAMMA (DEG)	XSURF (CM)	XR (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
46																	
47	7.5	-7.39	.27	-7.35	-7.62	1.16	-8.51	7.123E-05	.030	.021	1.466E-07	9.92	.72	.50	.037	.021	.037
48	7.5	-7.25	.36	-7.26	-7.62	.33	-8.51	9.521E-04	.403	.280	2.636E-05	9.35	.72	.50	.499	.280	.498
49	7.5	-7.27	.35	-7.27	-7.37	3.38	-8.19	1.909E-03	.808	.571	1.379E-04	10.64	.73	.50		.571	
50	7.5	-7.33	.29	-7.33	-3.63	3.30	-4.61	2.114E-03	.895	.752	1.573E-04	11.65	.83	.50		.752	
51	7.5	-7.47	.22	-7.47	0.00	1.00	-.97	2.024E-03	.857	.774	1.549E-04	11.53	.83	.50		.774	
52	7.5	-7.59	.24	-7.58	3.55	3.39	2.56	2.129E-03	.901	.804	1.693E-04	11.48	.82	.50		.804	
53	7.5	-7.15	.46	-7.16	7.24	0.00	5.25	1.762E-03	.746	.613	1.068E-04	10.60	.78	.50		.613	
54	7.5	-7.65	.36	-7.65	7.52	.31	6.61	1.014E-03	.429	.349	3.491E-05	10.71	.78	.50	.575	.349	.568
55	7.5	-7.30	.32	-7.30	7.62	1.11	6.60	7.953E-05	.034	.027	2.147E-07	10.71	.78	.50	.045	.027	.045
56																	
57																	
58	7.5	-7.24	.38	-7.24	7.62	4.97	6.61	2.268E-06	.001	.001	1.745E-10	10.71	.76	.50	.001	.001	.001
59	7.5	-7.25	.37	-7.25	7.62	3.42	6.61	7.990E-06	.003	.003	2.167E-09	10.71	.76	.50	.015	.003	.004
60	7.5	-7.65	0.07	-7.72	-7.14	.27	-8.08	1.014E-03	.429	.305	3.063E-05	10.60	.73	.50	.531	.305	.536
61	7.5	-9.75	0.07	-7.62	-7.35	1.17	-8.28	4.373E-05	.019	.013	5.624E-08	10.01	.73	.50	.023	.013	.023
62																	
63																	
64	7.5	-12.61	0.07	-7.62	-7.14	5.32	-8.07	1.084E-06	.003	.000	3.586E-11	10.08	.73	.50	.011	.000	.001
65	7.5	-13.22	0.07	-7.62	-7.14	5.63	-8.37	8.695E-06	.004	.003	2.253E-09	10.08	.73	.50	.005	.003	.005
66	7.5	-7.98	0.07	-7.62	-3.44	.36	-4.41	1.318E-03	.431	.365	3.682E-05	11.09	.80	.50	.482	.365	.486
67	7.5	-8.21	0.47	-7.62	-3.44	1.19	-4.41	2.858E-05	.012	.010	2.899E-08	11.09	.80	.50	.014	.010	.014
68																	
69																	
70	7.5	-12.65	0.07	-7.62	-3.46	5.34	-4.43	2.302E-06	.001	.001	1.879E-10	11.19	.80	.50	.001	.001	.001
71	7.5	-13.42	0.07	-7.62	-3.44	5.81	-4.37	9.338E-06	.004	.003	3.099E-09	11.10	.80	.50	.004	.003	.004
72																	
73	7.5	-9.85	0.07	-7.62	0.00	1.15	-.99	6.501E-05	.028	.025	1.598E-07	11.52	.83	.35	.032	.025	.032
74																	
75																	
76	7.5	-12.63	0.07	-7.62	0.00	4.99	-.99	5.154E-06	.002	.002	1.004E-09	11.52	.83	.50	.003	.002	.003
77	7.5	-13.43	0.07	-7.62	0.00	5.74	-.99	1.418E-07	.000	.000	7.606E-13	11.52	.83	.50	.000	.000	.000
78	7.5	-8.04	0.07	-7.62	3.53	.38	2.57	9.336E-04	.398	.358	3.297E-05	11.48	.82	.50	.441	.358	.441
79	7.5	-8.62	0.07	-7.62	3.63	1.17	2.60	7.335E-05	.030	.027	1.847E-07	11.44	.82	.50	.033	.027	.033
80																	
81																	
82																	
83	7.5	-13.44	0.07	-7.52	3.62	5.79	2.59	6.251E-05	.003	.002	1.463E-09	11.44	.82	.50	.003	.002	.003
84	7.5	-7.81	0.07	-7.62	7.33	.31	6.27	1.115E-03	.472	.387	4.272E-05	11.80	.78	.50	.633	.387	.632
85	7.5	-8.54	0.07	-7.62	7.36	1.09	6.37	5.816E-05	.025	.020	1.161E-07	11.79	.78	.50	.033	.020	.033
86																	
87																	
88	7.5	-12.52	0.0	-7.62	7.33	5.03	6.27	1.115E-07	.000	.000	4.269E-13	10.60	.78	.50	.000	.000	.000
89																	

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CHT TEST (52), MOAG-2 RSI GAPS, RUN (13) 1973 PAGE 241

MACH = 10.290 TT = 1.126E+03(K)
RN/FOOT = 7.1174E-02 PI = 5.148E+00(N/M2)
BL EDGE = 7.9933E+02 PI = 4.7842E+00(K)
BL THETA = 3.3234E+02 PI = 9.4845E+01(N/M2)
RHO = 3.2619E-01(KG/M3-S) (RHO V)1 = 1.0614E+01(KG/M2-S)
TW = 394.8 (K) GAB = .127 (CM)
STEP = 2.530E-02(CM) CONF = IN-L

TAW/TT =0.895 FOR HT/HO TILE COORDINATES(GAMMA=5.)
XSURF = SURFACE DISTANCE XB = X-COOR. FROM TILE LE
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(-) LOOKS UPSTREAM YC = Y-COOR. FROM TILE CENTER
HT/HF, GAP HEATING RATIOED TO EDGE AI TILE TOP SPECIFIC HEAT CORRECTED
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HI (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	W-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	15.0	0.0	7.62	-7.62	-7.62	1.143	-7.36	5.513E-03	.937	.937	9.516E-09	16.32	.75	.50	.603	.003	.003
						0.000	-7.62	1.103E-05	1.000	1.000	9.516E-09	16.32	.75	.50			
						0.000	-7.62	1.103E-05	1.000	1.000	9.516E-09	16.32	.75	.50			
						0.000	-3.81	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.921	.917	.917
						0.000	3.81	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.481	.478	
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50		.478	
						0.000	7.62	2.209E-03	1.126	11.025	2.277E-08	11.26	.83	.50		11.005	
2	15.0	0.0	7.62	-7.62	-7.62	1.143	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.921	.917	.917
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.481	.478	
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50		.478	
						0.000	7.62	2.209E-03	1.126	11.025	2.277E-08	11.26	.83	.50		11.005	
3	15.0	0.0	7.62	-7.62	7.62	1.143	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.921	.917	.917
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.481	.478	
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50		.478	
						0.000	7.62	2.209E-03	1.126	11.025	2.277E-08	11.26	.83	.50		11.005	
4	15.0	0.0	7.62	-7.62	7.62	1.143	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.921	.917	.917
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.481	.478	
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50		.478	
						0.000	7.62	2.209E-03	1.126	11.025	2.277E-08	11.26	.83	.50		11.005	
5	15.0	0.0	7.62	-7.62	7.62	1.143	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.921	.917	.917
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.481	.478	
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50		.478	
						0.000	7.62	2.209E-03	1.126	11.025	2.277E-08	11.26	.83	.50		11.005	
6	15.0	0.0	7.62	-7.62	7.62	1.143	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.921	.917	.917
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.481	.478	
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50		.478	
						0.000	7.62	2.209E-03	1.126	11.025	2.277E-08	11.26	.83	.50		11.005	
7	15.0	0.0	7.62	-7.62	7.62	1.143	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.921	.917	.917
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.481	.478	
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50		.478	
						0.000	7.62	2.209E-03	1.126	11.025	2.277E-08	11.26	.83	.50		11.005	
8	15.0	0.0	7.62	-7.62	7.62	1.143	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.921	.917	.917
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.481	.478	
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50		.478	
						0.000	7.62	2.209E-03	1.126	11.025	2.277E-08	11.26	.83	.50		11.005	
9	15.0	0.0	7.62	-7.62	7.62	1.143	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.921	.917	.917
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.481	.478	
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50		.478	
						0.000	7.62	2.209E-03	1.126	11.025	2.277E-08	11.26	.83	.50		11.005	
10	15.0	0.0	7.62	-7.62	7.62	1.143	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.921	.917	.917
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50	.481	.478	
						0.000	7.62	2.209E-03	1.126	1.126	2.277E-08	11.26	.83	.50		.478	
						0.000	7.62	2.209E-03	1.126	11.025	2.277E-08	11.26	.83	.50		11.005	

CFM* TEST (921), MOAC-E 251 , RUN (13) 1973 PAGE 242

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XI (CM)	YB (CM)	Z (CM)	Y-NOSE (CM)	QT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUBTH (CM)	HT/HE	HTC/HF	HTC/HEC
46	15.0	-7.24	.38	-7.62	7.42	4.97	5.49	4.31E-06	.002	.862	6.54E-10	10.90	.79	.58	.602	.862	.862
47	15.2	-7.45	2.87	-7.62	-7.35	1.17	-8.87	9.09E-04	.385	.262	2.36E-05	9.79	.72	.59	.838	.262	.838
48	15.3	-9.74	8.87	-7.62	-7.35	1.17	-9.07	4.17E-05	.018	.012	4.91E-08	9.71	.71	.59	.825	.012	.824
49	15.0	-12.45	15.37	-7.62	-7.14	5.32	-8.87	8.12E-10	.000	.000	1.08E-13	9.79	.72	.58	.836	.860	.860
50	15.2	-13.22	8.87	-7.62	-7.14	5.63	-8.87	1.15E-03	.535	.821	3.09E-09	9.29	.72	.588	.847	.813	.807
51	15.3	-9.81	8.87	-7.62	-7.35	1.19	-8.34	3.04E-05	.014	.013	5.67E-08	10.98	.79	.588	.818	.813	.818
52	15.0	-13.45	20.37	-7.62	-3.46	5.84	-5.32	3.23E-07	.000	.000	3.59E-12	10.90	.79	.588	.830	.860	.860
53	15.2	-13.42	8.87	-7.62	-3.46	5.84	-5.32	9.23E-09	.000	.000	9.92E-11	10.98	.79	.588	.8004	.8004	.8004
54	15.3	-10.22	8.87	-7.62	-3.63	1.19	-11.97	6.21E-05	.026	.024	2.44E-07	11.48	.82	.588	.8031	.8031	.8031
55	15.0	-13.43	8.87	-7.62	5.74	5.79	-1.97	1.07E-10	.001	.864	1.05E-12	10.90	.79	.588	.8031	.8031	.8031
56	15.2	-13.22	8.87	-7.62	7.33	1.19	1.53	6.09E-09	.029	.023	1.42E-07	11.52	.83	.588	.8031	.8023	.8023
57	15.3	-10.02	8.87	-7.62	7.33	1.19	1.53	5.99E-07	.029	.023	1.42E-07	11.52	.83	.588	.8031	.8023	.8023
58	15.0	-13.44	8.87	-7.62	5.79	5.86	1.52	1.07E-05	.005	.004	4.36E-08	11.53	.83	.588	.8031	.8004	.8005
59	15.2	-13.22	8.87	-7.62	7.33	1.19	3.14	6.55E-08	.029	.023	1.42E-07	11.52	.83	.588	.8031	.8023	.8023
60	15.3	-10.02	8.87	-7.62	7.33	1.19	3.14	6.33E-08	.029	.023	1.42E-07	11.52	.83	.588	.8031	.8023	.8023
61	15.0	-13.15	8.87	-7.62	7.35	5.86	5.13	1.08E-05	.005	.004	4.18E-09	11.46	.80	.59	.806	.804	.806

CFMT TEST (92), MDAC-E PSI GAPS, RUN (23) 1973

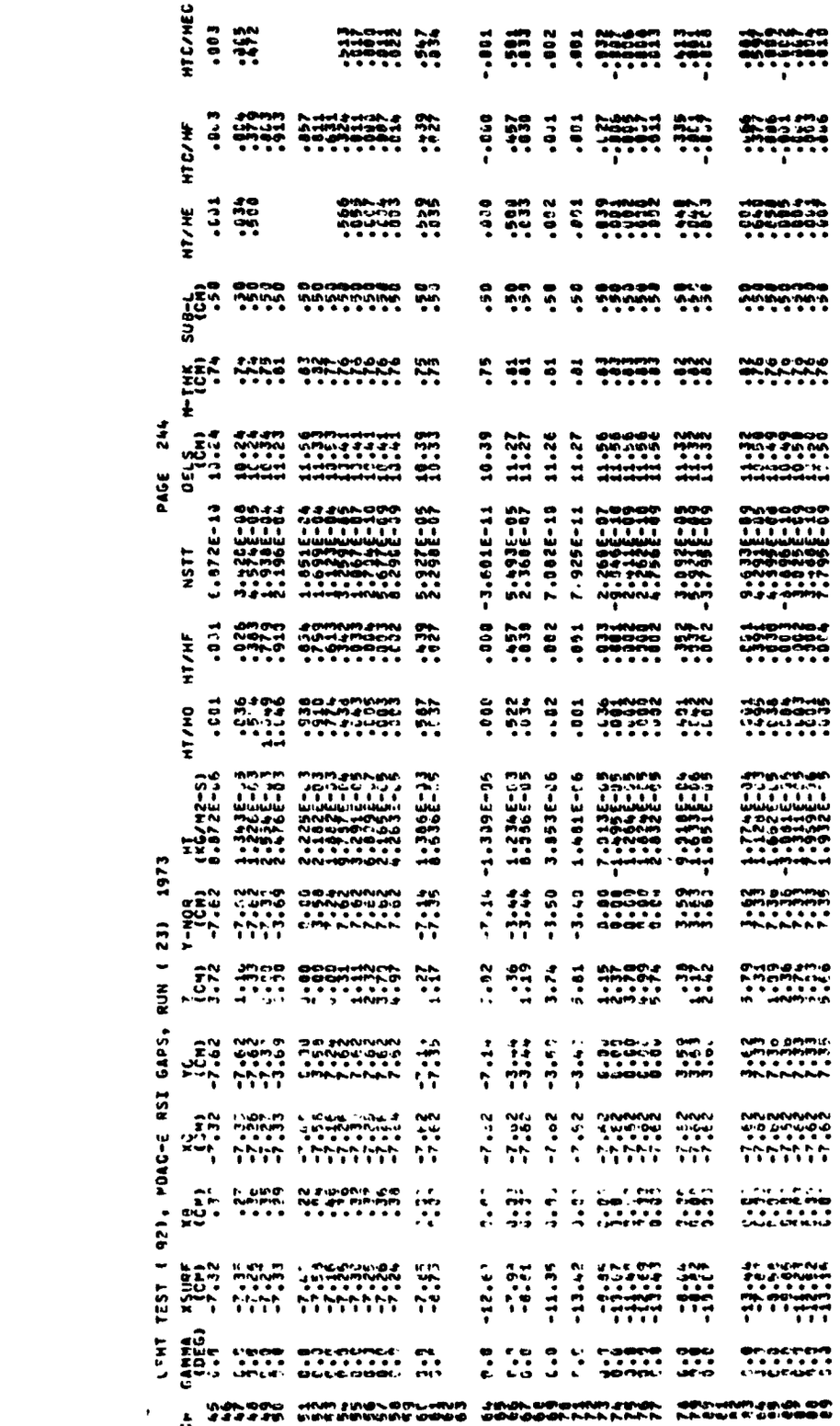
MACH = 10.2900 TT = 9.965E+02(K)
REN E+6 = 1.3780E+00 PT = 5.1682E+01(N/M2)
REN EDGE = 8.3780E-02 PI = 4.6892E+01(K)
RHO/METER = 3.2978E+00(KG/M3) PS = 9.0224E+01(N/M2)
MO = 2.8699E+00(M/M2-K) (RHO V)2 = 1.0332E+01(KG/M2-S)
TW = 2.8699E+00(K) GAP = .229 (CM)
STEP = 1.0000(CM) CONF =IN-L

TANGIT =SURFACE FOR HT/MO
XSURF =SURFACE DISTANCE (FROM STAGNATION POINT)
HT/ME, GAP HEATING RATIO TO EDGE AT TILE TOP
HTC/HEC, CONDUCTION CORRECTED HT/ME

TILE COORDINATES(GAMMA=0.0
XQ = X-COOR. FROM TILE LAG
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER
RATIOED TO FLAT PLATE

SPI :FIG HEAT CORRECTED

CP	GAMMA (DEG)	XSURF (CM)	XQ (CM)	XC (CM)	Z (CM)	Y-NOR (CM)	PT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTG/HF	HTC/HEC
0	0.0	7.62	7.62	-7.62	5.13	-7.62	7.225E-05	.001	.001	5.973E-09	10.24	.74	.58	.001	.827	.829
1	0.0	7.62	7.62	-7.62	3.74	-7.62	2.287E-05	.001	.000	2.880E-09	10.24	.74	.58	.001	.827	.829
2	0.0	7.62	7.62	-7.62	1.49	-7.62	1.375E-05	.035	.826	3.495E-08	10.24	.74	.58	.635	.854	.886
3	0.0	7.62	7.62	-7.62	.33	-7.62	1.092E-05	.4600	.3443	1.450E-08	10.24	.74	.58	.468	.330	.481
4	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	.749	.781
5	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
6	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
7	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
8	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
9	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
10	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
11	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
12	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
13	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
14	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
15	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
16	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
17	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
18	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
19	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
20	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
21	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
22	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
23	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
24	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
25	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
26	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
27	0.0	7.62	7.62	-7.62	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
0	0.0	-3.00	3.62	-3.61	3.94	-7.62	3.346E-05	.001	.000	1.217E-09	10.24	.74	.58	.001	.818	.813
1	0.0	-3.00	3.62	-3.61	2.55	-7.62	2.287E-05	.001	.000	8.880E-10	10.24	.74	.58	.001	.818	.813
2	0.0	-3.00	3.62	-3.61	1.16	-7.62	1.479E-05	.035	.022	3.127E-08	10.24	.74	.58	.029	.804	.808
3	0.0	-3.00	3.62	-3.61	.33	-7.62	1.092E-05	.4600	.0047	1.699E-09	10.24	.74	.58	.029	.805	.808
4	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	.0000	1.450E-11	10.24	.74	.58	.029	.827	.831
5	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
6	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
7	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
8	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
9	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
10	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
11	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
12	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
13	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
14	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
15	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
16	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
17	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
18	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
19	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
20	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
21	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
22	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
23	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
24	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
25	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
26	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
27	0.0	-3.00	3.62	-3.61	.00	-7.62	1.083E-05	1.0000	1.0000	4.209E-08	10.24	.74	.58	.468	1.000	1.042
0	0.0	-7.35	1.79	-7.73	5.13	-7.62	7.225E-05	.001	.001	-3.861E-10	10.41	.76	.59	.001	-.015	-.016
1	0.0	-7.35	1.79	-7.73	3.74	-7.62	2.287E-05	.001	.000	2.558E-08	10.41	.76	.59	.001	.828	.823
2	0.0	-7.35	1.79	-7.73	2.35	-7.62	1.511E-05	.001	.000	-1.861E-10	10.41	.76	.59	.001	-.015	-.016
3	0.0	-7.35	1.79	-7.73	1.16	-7.62	1.479E-05	.035	.022	3.127E-08	10.41	.76	.59	.029	.804	.808
4	0.0	-7.35	1.79	-7.73	.33	-7.62	1.092E-05	.4600	.0047	1.699E-09	10.41	.76	.59	.029	.805	.808
5	0.0	-7.35	.27	-7.73	5.79	-7.62	6.898E-05	.001	.000	1.217E-09	10.41	.76	.59	.001	.818	.813
6	0.0	-7.35	.29	-7.73	4.91	-7.62	3.162E-05	.001	.000	5.252E-09	10.24	.74	.58	.001	.818	.813



ORIGINAL PAGE IS
OF POOR QUALITY

CFMT TEST (92), MDAC-E RSI GAPS, RUN (24) 1973

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MACH        = 10.290                 TT         =  9.977E+02(K)
RX E66      =  3.342E-01             PI         =  5.166E+36(N/M2)
RL E66      =  8.354E-02             TI         =  4.697E+01(K)
RE/METER    =  3.209E+06             PI         =  9.021E+01(N/M2)
HO          =  2.619E+00(W/M2-K)     (RHO V)I   =  1.031E+01(KG/M2-S)
TW          =  302.4  (K)            GAP        =  .229 (CM)
STEP        =  0.000(CM)             CONF       = IN-L

TAW/TT =0.995 FOR HT/HO              TILE COORDINATES(GAMMA=0.0
XSURF  =SURFACE DISTANCE               XB = X-COOR. FROM TILE L.E.
        (FLOW DIRECTION)               XC = X-COOR. FROM TILE CENTER
        (0.0 OR 90 DEG )               YC = Y-COOR. FROM TILE CENTER
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE
```

SPECIFIC HEAT CORRECTED

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	7.5	[illegible]	7.62	[illegible]	-7.62	5.70	-7.55	-1.172E-04	.002	.002	-2.004E-08	10.26	.75	.50	.002	-.036	-.047
10																	
11																	
12	7.5	[illegible]	7.62	[illegible]	-7.62	1.14	-7.55	7.150E-05	.036	.026	1.032E-07	10.26	.75	.50	.035	.022	.029
13	7.5	[illegible]	7.62	[illegible]	-7.62	.33	-7.55	1.148E-03	.484	.355	3.969E-05	10.26	.75	.50	.473	.357	.464
14	7.5	[illegible]	7.62	[illegible]	-7.29	0.00	-7.23	2.436E-03	1.022	.761	1.000E-04	10.37	.75	.50		.769	
15	7.5	[illegible]	7.62	[illegible]	-3.63	0.00	-3.60	[illegible]	1.199	1.046	2.095E-04	11.24	.81	.50		1.040	
16	7.5	[illegible]	7.62	[illegible]	0.05	0.00	0.00	2.739E-03	1.169	1.064	2.961E-04	11.56	.83	.50		1.063	
17	7.5	[illegible]	7.62	[illegible]	3.54	0.00	3.51	2.727E-03	1.163	1.023	2.719E-04	11.34	.82	.50		1.015	
18	7.5	[illegible]	7.62	[illegible]	7.27	0.00	7.28	2.486E-03	1.044	.020	2.007E-04	10.54	.77	.50		.036	
19	7.5	[illegible]	7.62	[illegible]	7.62	.41	7.55	9.454E-04	.425	.333	3.068E-05	10.43	.76	.50	.407	.313	.375
20	7.5	[illegible]	7.62	[illegible]	7.62	1.17	7.55	8.729E-06	.045	.035	3.089E-09	10.43	.76	.50	.043	.093	.003
21																	
22	7.5	0.00	7.62	0.00	7.62	2.39	7.55	-1.101E-05	.000	.000	-2.460E-11	10.43	.76	.50	.000	-.004	-.004
23	7.5	0.30	7.62	[illegible]	7.62	2.07	7.55	2.844E-05	.003	.002	6.425E-09	10.43	.76	.50	.003	.009	.011
24	7.5	3.09	7.62	[illegible]	7.62	5.73	7.55	3.082E-05	.000	.000	5.325E-10	10.43	.76	.50	.000	.010	.012
25																	
26																	
27																	
28																	
29																	
30	7.5	-3.83	3.79	-3.83	-7.62	1.16	-8.05	1.419E-04	.033	.024	3.263E-07	10.09	.73	.50	.030	.043	.057
31	7.5	-3.87	3.75	-3.87	-7.62	.33	-8.06	1.392E-03	.562	.400	5.394E-05	10.09	.73	.50	.517	.417	.516
32	7.5	[illegible]	3.83	-3.79	-7.24	0.00	-7.67	2.618E-03	1.098	.793	2.023E-04	10.22	.74	.50		.808	
33	7.5	[illegible]	3.73	-3.92	-3.71	0.00	-4.19	2.888E-03	1.220	1.043	2.937E-04	11.14	.80	.50		1.045	
34	7.5	[illegible]	3.67	-3.95	0.06	0.00	-.52	2.810E-03	1.189	1.077	2.351E-04	11.55	.83	.50		1.076	
35	7.5	[illegible]	3.73	-3.89	3.59	0.00	3.05	2.868E-03	1.219	1.071	2.994E-04	11.39	.82	.50		1.075	
36	7.5	-3.74	3.88	-3.74	7.2[illegible]	0.00	6.73	2.562E-03	1.064	.059	2.144E-04	10.68	.78	.50		.075	
37	7.5	-3.79	3.83	-3.79	7.62	.37	7.36	1.109E-03	.467	.373	4.329E-05	10.58	.77	.50	.439	.374	.428
38	7.5	-3.74	3.88	-3.74	7.62	1.15	7.87	5.975E-05	.031	.025	1.453E-07	10.58	.77	.50	.029	.020	.023
39																	
40																	
41																	
42	7.5	-3.62	4.89	-3.62	7.62	5.68	7.08	-6.511E-05	.001	.001	-6.987E-09	10.58	.77	.50	.001	-.022	-.025
43																	
44																	

3.4- 47

CFHT TEST (92), MOAC-II RSI GAPS, RUN (24) 1973 PAGE 246

CA	GAMMA (DEG)	XSURF (CM)	XB (CM)	XG (CM)	YG (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	W-THK (CM)	SUB-L (CM)	HT/HE	HTG/HF	HTC/HEC
45	7.5	-7.32	-7.32	-7.62	-7.62	3.72	-8.51	-1.35RE-04	.061	.061	-1.161E-02	9.92	.72	.50	.881	-.843	-.857
46																	
47																	
48																	
49																	
50																	
51																	
52																	
53	7.5	-7.35	.27	-7.62	-7.62	1.46	-8.51	4.39?E-05	.637	.026	1.108E-07	9.93	.72	.50	.039	.913	.819
54		-7.26	.36	-7.62			-8.51		.466	.324	3.438E-06	9.93	.72	.50	.488	.323	.468
55		-7.27	.35	-7.62			-8.51		.954	.674	1.526E-04	11.05	.72	.50		.698	
56		-7.37	.25	-7.62			-8.51		1.000	.853	1.396E-04	11.05	.72	.50		.856	
57		-7.44	.18	-7.62			-8.51		.959	.858	1.091E-04	11.05	.72	.50		.868	
58		-7.50	.12	-7.62			-8.51		.959	.858	1.091E-04	11.05	.72	.50		.868	
59		-7.54	.08	-7.62			-8.51		.959	.858	1.091E-04	11.05	.72	.50		.868	
60		-7.56	.06	-7.62			-8.51		.959	.858	1.091E-04	11.05	.72	.50		.868	
61		-7.56	.06	-7.62			-8.51		.959	.858	1.091E-04	11.05	.72	.50		.868	
62		-7.56	.06	-7.62			-8.51		.959	.858	1.091E-04	11.05	.72	.50		.868	
63	7.5	-7.14	.49	-7.62	7.24	3.08	6.25	1.90?E-03	.807	.663	1.190E-04	10.96	.72	.50	.881	.891	.844
64		-7.20	.43	-7.62	7.62	3.31	6.61	1.40?E-03	.843	.708	1.579E-04	10.97	.72	.50	.858	.858	.822
65		-7.33	.29	-7.62	7.62	3.11	6.60	4.38?E-05	.843	.838	1.491E-07	10.71	.72	.50	.853	.815	.822
66	7.5	-7.26	.36	-7.62	7.62	3.70	5.61	1.27?E-03	.802	.801	1.529E-09	10.71	.72	.50	.882	.804	.806
67	7.5	-7.25	.37	-7.62	7.62	5.62	6.61	6.23?E-05	.902	.881	7.640E-09	10.71	.72	.50	.882	.821	.833
68		-7.25	.37	-7.62	-7.62	4.27	-8.00	1.23?E-03	.921	.871	4.720E-07	10.01	.72	.50	.547	.378	.833
69		-7.44	.18	-7.62	-7.62	2.34	-8.00	1.23?E-05	.921	.923	-1.403E-09	10.01	.72	.50	.881	-.022	.833
70		-8.92	1.30	-7.62	-7.62	2.13	-8.00	-2.29?E-05	.921	.921	-1.403E-09	10.01	.72	.50	.881	-.022	-.810
71		-11.20	3.58	-7.62	-7.62	3.71	-8.00	6.93?E-05	.868	.868	1.523E-09	10.06	.73	.50	.880	.821	.838
72																	
73																	
74																	
75																	
76																	
77																	
78																	
79																	
80																	
81	7.5	-7.98	.02	-7.62	-3.44	.36	-4.41	1.23?E-03	.512	.434	5.113E-05	11.09	.80	.50	.505	.434	.508
82																	
83	7.5	-8.61	.65	-7.62	-3.44	1.19	-4.41	8.12?E-05	.834	.829	2.308E-07	11.09	.80	.50	.834	.829	.834
84																	
85																	
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100																	
101	7.5	-12.65	6.05	-7.62	-3.49	5.04	-4.43	5.05?E-04	.888	.888	-9.087E-10	11.52	.83	.50	.880	-.814	-.816
102		-13.42	6.81	-7.62	-3.49	3.81	-4.43	1.80?E-05	.884	.884	3.384E-09	11.18	.88	.50	.884	.883	.829
103		-13.42	6.81	-7.62	-3.49												
104	7.5	-11.41	3.97	-7.62	3.55	3.76	2.53	2.16?E-05	.880	.837	8.299E-08	11.44	.82	.50	.843	.837	.838
105																	
106	7.5	-13.44	8.84	-7.62	3.62	5.79	2.55	1.03?E-04	.884	.883	3.408E-08	11.44	.82	.50	.880	.880	.845
107																	
108																	
109																	
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111																	
112																	
113																	
114																	
115																	
116																	
117																	
118																	
119																	
120																	
121	7.5	-13.43	8.85	-7.62	-7.62	5.74	-8.99	-3.63?E-05	.888	.888	-9.087E-10	11.52	.83	.50	.880	-.814	-.816
122		-13.42	8.81	-7.62	-3.49	3.81	-4.43	1.80?E-05	.884	.884	3.384E-09	11.18	.88	.50	.884	.883	.829
123		-8.02	1.41	-7.62		1.17	2.60	2.32?E-05	.837	.837	8.299E-08	11.44	.82	.50	.843	.837	.838
124																	
125																	
126																	
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137																	
138																	
139																	
140																	
141	7.5	-11.41	3.97	-7.62	3.55	3.76	2.53	2.16?E-05	.880	.837	8.299E-08	11.44	.82	.50	.843	.837	.838
142																	
143	7.5	-13.44	8.84	-7.62	3.62	5.79	2.55	1.03?E-04	.884	.883	3.408E-08	11.44	.82	.50	.880	.880	.845
144																	
145																	
146																	
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156																	
157																	
158																	
159																	
160																	
161	7.5	-12.52	8.83	-7.62	7.33	3.83	6.27	-1.11?E-04	.888	.888	-2.938E-09	10.88	.78	.50	.838	.839	-.857

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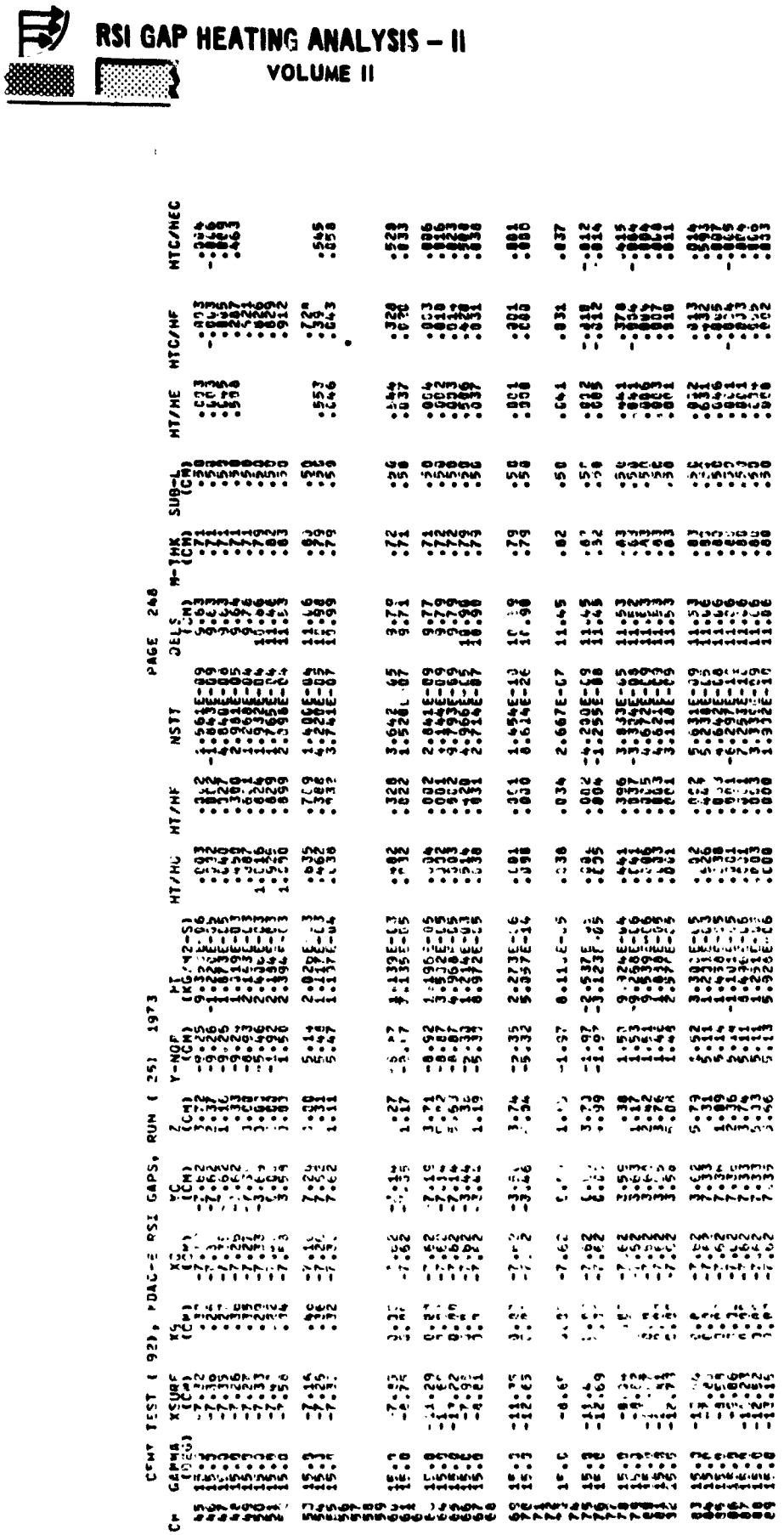
CFHT TEST (92), MDAC-E RSI GAPS, RUN (25) 1973 PAGE 247

MACH = 15.29^ IT = 9.970E+02(K)
RX_EDG = 3.345E-01 PI = 5.164E+06(N/M2)
RL_EDG = 8.363E-12 TI = 4.694E+01(K)
RE/METER = 3.292E+06 PI = 9.418E+01(N/M2)
MO = 2.619E+00(N/M2-K) (RHO V)1 = 1.031E+01(KG/M2-S)
TW = 302.5 (K) GAP = .229 (CM)
STEP = 8.918(CM) CONF =IN-L

TAW/TT =0.895 FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 OR 90 DEG) YC = Y-COOR. FROM TILE CENTER *SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
0	15.0	0.00	7.62	0.00	-7.62	0.00	-7.36	1.425E-04	.003	.002	3.089E-08	10.32	.75	.50	.803	.845	.857
1																	
2																	
3	15.0	0.07	7.62	0.00	-7.62	2.36	-7.36	-2.563E-05	.001	.001	-1.630E-09	10.32	.75	.50	.801	-.000	-.000
4	15.0	0.00	7.62	0.00	-7.62	1.14	-7.36	4.433E-06	.039	.029	1.245E-08	10.32	.75	.50	.836	.001	.002
5	15.0	0.00	7.62	0.00	-7.62	0.33	-7.36	1.131E-03	.409	.302	3.807E-05	10.32	.75	.50	.475	.325	.441
6	15.0	0.00	7.62	0.00	-7.62	0.00	-7.36	2.478E-03	1.029	.774	1.854E-04	10.42	.76	.50		.703	
7	15.0	0.00	7.62	0.00	-7.62	0.00	-7.36	2.843E-03	1.281	1.049	2.908E-04	11.26	.81	.50		1.022	
8	15.0	0.00	7.62	0.00	-7.62	0.00	-7.36	2.749E-03	1.160	1.055	2.826E-04	11.58	.83	.50		1.059	
9																	
10	15.0	0.00	7.62	0.00	7.62	3.54	3.00	2.702E-03	1.152	1.014	2.672E-04	11.35	.82	.50		1.007	
11	15.0	0.00	7.62	0.00	7.62	3.42	3.00	2.337E-03	.982	.784	2.705E-04	10.59	.77	.50		.798	
12	15.0	0.00	7.62	0.00	7.27	0.00	3.02	9.119E-04	.390	.300	2.706E-05	10.49	.76	.50	.398	.380	.398
13	15.0	0.00	7.62	0.00	7.62	1.17	7.36	3.586E-05	.045	.036	1.244E-07	10.49	.76	.50	.046	.012	.015
14																	
15																	
16	15.0	0.00	7.62	0.00	7.62	5.07	7.36	4.823E-05	.001	.001	2.877E-09	10.49	.76	.50	.001	.013	.017
17	15.0	0.00	7.62	0.00	7.62	3.73	7.36	9.990E-06	.000	.000	3.342E-09	10.49	.76	.50	.001	.003	.004
18	15.0	-3.70	3.82	-3.70	7.62	3.70	-8.34	1.137E-06	.000	.000	6.656E-10	9.98	.73	.50	.000	.000	.000
19	15.0	-3.84	3.82	-3.84	7.62	3.84	-8.34	3.526E-05	.000	.000	5.822E-11	9.98	.73	.50	.000	.010	.013
20																	
21																	
22																	
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	
31	14.8	-3.89	3.75	-3.89	-7.62	1.16	-8.35	2.711E-05	.034	.026	9.979E-09	98	.73	.28	.034	.006	.010
32	14.8	-3.89	3.75	-3.89	-7.62	.33	-8.36	1.381E-03	.584	.488	5.499E-05	98	.73	.28	.528	.407	.501
33																	
34																	
35																	
36																	
37																	
38																	
39																	
40																	
41																	
42																	
43	15.0	-3.74	3.89	-3.74	7.62	.37	6.38	1.853E-05	.023	.018	1.177E-09	10.76	.78	.50	.431	.364	.412
44	15.0	-3.74	3.89	-3.74	7.62	1.15	6.39	2.127E-07	.002	.002	5.430E-10	10.76	.78	.50	.031	.008	.009
45																	
46																	
47																	
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62																	
63	15.0	-3.82	3.82	-3.82	7.62	3.62	6.39	2.533E-05	.013	.010	6.783E-09	10.77	.78	.51	.033	.009	.011
64	15.0	-3.67	3.95	-3.67	7.62	5.04	6.41	3.426E-06	.001	.001	3.242E-09	10.76	.78	.50	.001	.012	.013
65	15.0	-3.62	4.00	-3.62	7.62	5.58	6.42	5.194E-05	.002	.002	9.526E-09	10.76	.78	.50	.002	.018	.020
66																	
67																	
68	15.0	-7.35	.27	-7.35	-7.62	5.70	-9.26	2.565E-06	.001	.001	1.588E-10	9.63	.71	.50	.001	.001	.001
69	15.0	-7.33	.29	-7.33	-7.62	5.91	-9.26	4.466E-06	.001	.001	3.641E-10	9.63	.71	.50	.001	.001	.002



CFHT TEST (92), MDAC-E RSI GAPS, RUN (26) 1973 PAGE 249

MACH = 10.230
RX E06 = 3.328E-01
RL E06 = 8.319E-02
RE/METER = 3.275E+06
HO = 2.619E+00(W/M2-K)
TW = 302.7 (K)
STEP = 0.000(CM)

TT = 9.996E+02(K)
PI = 5.164E+06(N/M2)
T1 = 4.737E+01(K)
P1 = 9.814E+01(N/M2)
(RHO V)1 = 1.029E+01(KG/M2-S)
GAP = .229 (CM)
CONF = IN-L

TAW/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)

TILE COORDINATES(GAMMA=0.0)
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

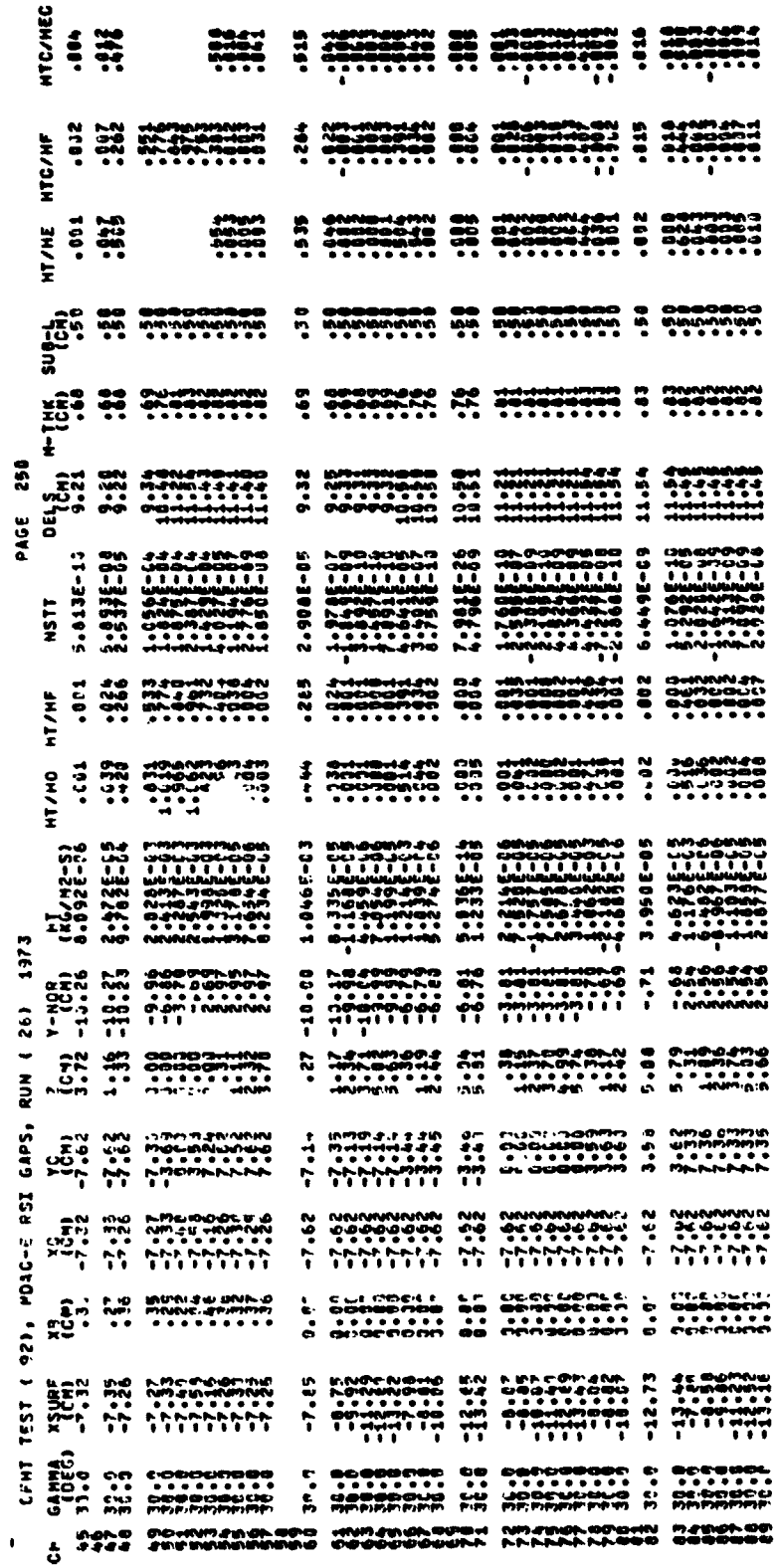
SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	30.0	0.00	7.62	0.00	-7.62	5.73	-6.63	5.728E-05	.004	.003	1.916E-08	10.56	.77	.50	.006	.019	.023
10	30.0	0.00	7.62	0.00	-7.62	5.33	-6.65	3.648E-05	.002	.002	6.658E-09	10.56	.77	.50	.002	.012	.015
11																	
12																	
13	30.0	0.00	7.62	0.00	-7.62	1.14	-5.60	2.780E-05	.038	.029	8.012E-08	10.56	.77	.50	.036	.009	.011
14	30.0	0.00	7.62	0.00	-7.62	.33	-6.60	1.172E-03	.496	.382	4.366E-05	10.56	.77	.50	.489	.382	.476
15	30.0	0.00	7.62	0.00	-7.29	0.00	-6.32	2.424E-03	1.015	.792	1.075E-04	10.64	.77	.50		[illegible]	
16	30.0	0.00	7.62	0.00	-3.63	1.00	-3.15	2.856E-03	1.206	1.063	2.963E-04	11.31	.81	.50		[illegible]	
17	30.0	0.00	7.62	0.00	0.00	2.00	0.00	2.696E-03	1.142	1.039	2.736E-04	11.60	.81	.50		[illegible]	
18	30.0	0.00	7.62	0.00	3.64	3.00	3.07	2.672E-03	1.141	1.009	2.635E-04	11.39	.82	.50		[illegible]	
19	30.0	0.00	7.62	0.00	7.27	0.00	6.29	2.118E-03	.887	.727	1.504E-04	10.79	.78	.50		[illegible]	
20	30.0	0.00	7.62	0.00	7.62	.41	6.60	7.310E-04	.343	.278	2.041E-05	10.71	.78	.50	.307	.258	.351
21	30.0	0.00	7.62	0.00	7.62	1.17	6.60	9.036E-06	.046	.037	3.262E-08	10.71	.78	.50	.041	.002	.004
22	30.0	0.00	7.62	0.00	7.62	2.39	6.60	-1.017E-05	.003	.005	-5.493E-10	10.71	.78	.50	.009	-.005	-.008
23	30.0	0.00	7.62	0.00	7.62	3.70	6.60	1.913E-05	.032	.002	3.438E-09	10.71	.78	.50	.003	.007	.009
24	30.0	0.00	7.62	0.00	7.62	5.07	6.60	2.867E-05	.001	.001	2.192E-09	10.71	.78	.50	.001	.018	.017
25	30.0	0.00	7.62	0.00	7.62	5.73	6.60	3.597E-05	.001	.001	4.201E-09	10.71	.78	.50	.002	.013	.016
26	30.0	-3.76	3.86	-3.76	-7.62	5.70	-8.48	1.122E-04	.000	.000	3.332E-09	9.93	.72	.50	.000	.033	.042
27																	
28																	
29	30.0	-3.81	3.81	-3.81	-7.62	2.44	-8.51	-2.411E-05	.000	.000	-4.865E-10	9.93	.72	.50	.000	-.007	-.009
30	30.0	-3.83	3.79	-3.83	-7.62	1.16	-8.51	1.019E-05	.037	.026	2.578E-08	9.92	.72	.50	.034	.003	.004
31	30.0	-3.87	3.75	-3.87	-7.62	.33	-8.53	1.276E-03	.558	.387	4.825E-05	9.91	.72	.50	.514	.375	.478
32	30.0	-3.79	3.83	-3.79	-7.24	0.00	-8.17	2.613E-03	1.006	.760	1.961E-04	10.05	.73	.50		.783	
33	30.0	-3.92	3.73	-3.92	-3.71	0.00	-5.17	2.847E-03	1.233	.900	2.748E-04	10.93	.79	.50		.990	
34	30.0	-3.95	3.67	-3.95	0.00	0.00	-1.98	2.790E-03	1.180	1.057	2.880E-04	11.45	.82	.50		1.053	
35	30.0	-3.89	3.73	-3.89	3.59	0.00	1.17	2.991E-03	1.262	1.138	3.324E-04	11.54	.83	.50		1.142	
36	30.0	-3.74	3.88	-3.74	7.28	0.00	4.43	2.435E-03	1.011	.872	2.874E-04	11.19	.81	.50		.890	
37	30.0	-3.79	3.83	-3.79	7.62	.37	4.73	9.947E-04	.421	.361	3.560E-05	11.14	.81	.50	.417	.361	.408
38	30.0	-3.74	3.88	-3.74	7.62	1.15	4.73	5.221E-06	.032	.027	1.385E-08	11.14	.80	.50	.031	.002	.002
39																	
40																	
41	30.0	-3.67	3.95	-3.67	7.62	5.24	4.77	3.786E-05	.001	.001	2.955E-09	11.13	.80	.50	.001	.014	.015
42	30.0	-3.62	4.00	-3.62	7.62	5.68	4.79	5.791E-05	.002	.002	1.023E-08	11.13	.80	.50	.002	.021	.024
43	30.0	-7.35	.27	-7.35	-7.62	3.70	-10.27	5.600E-05	.003	.002	1.129E-08	9.20	.68	.50	.004	.015	.020
44	30.0	-7.33	.29	-7.33	-7.62	4.91	-10.26	3.227E-05	.000	.000	3.446E-10	9.21	.68	.50	.030	.039	.016

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C-4



ORIGINAL PAGE IS
OF POOR QUALITY

CFHT TEST (92), MDAC-E RSI GAPS, RUN (47) 1973 PAGE 251

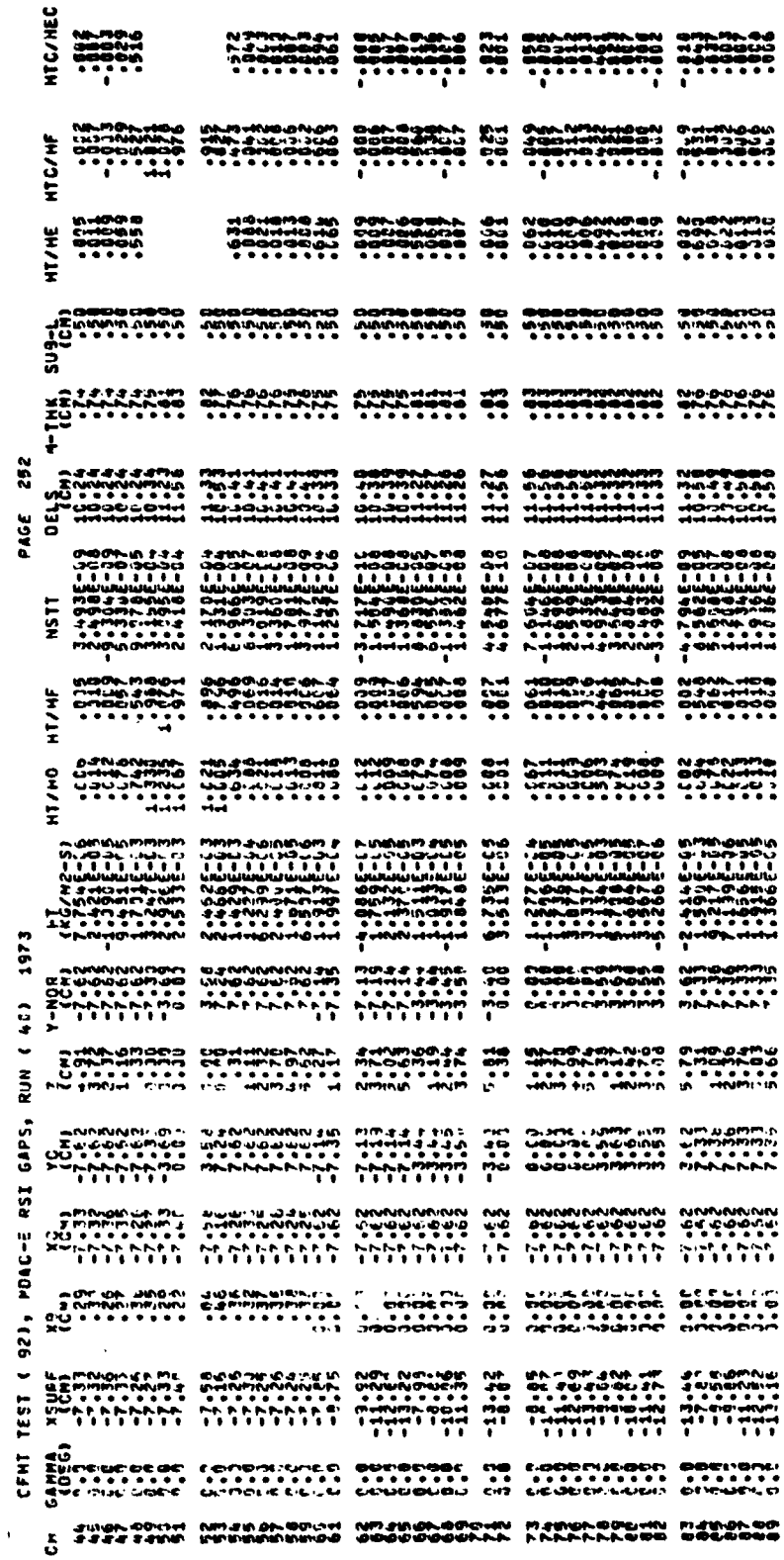
MACH = 10.20[illegible] TT = 1.022E+03(K)
REX E06 = 3.25[illegible]E-01 PI = 5.117E+02(N/M2)
REL E06 = 8.[illegible]E-02 DI = 4.170E+01(K)
RE/METER = 3.[illegible]E+06 (1/M) VI = 9.[illegible]E-01(N/M2)
HO = [illegible]E+08 (J/KG) (RHO V)I = 1.022E+01(KG/M2-S)
TW = 297.[illegible] (K) GAP = .457 (CM)
STEP = 20.0[illegible](CM) CONF = IN-L

IAN/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION)
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

TILE COORDINATES(GAMMA=0.)
XO = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HI (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	W-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
[illegible]																	



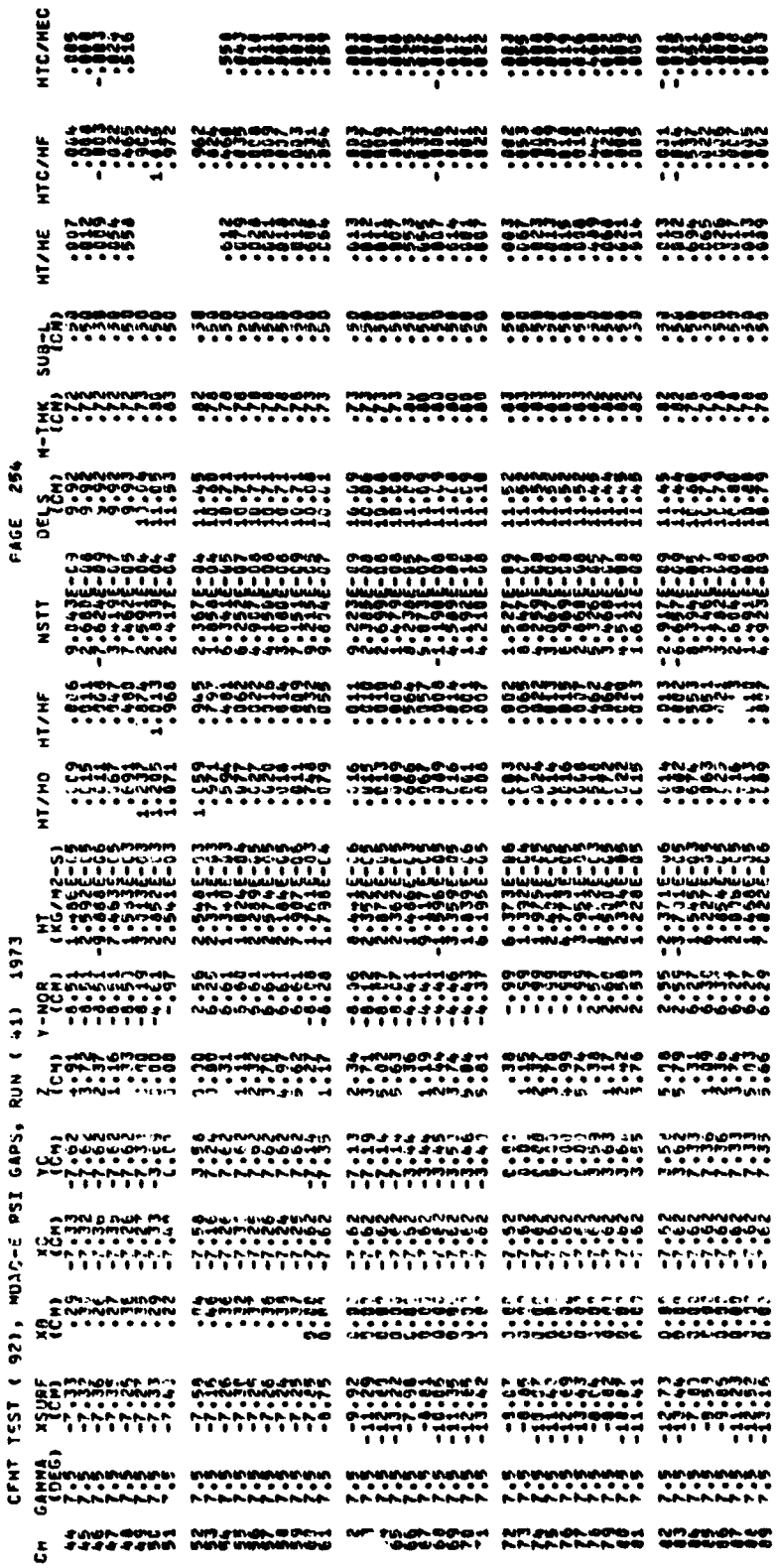
CFHT TEST (92), MDAC-E RSI GAPS, RUN (41) 1973 PAGE 253

MACH = 16.230 TI = 1.012E+03(K)
RX E06 = 3.254E-11 PI = 5.172E+06(N/M2)
RL E05 = 8.138E-12 TI = 4.770E+01(K)
RE/METER = 2.203E+06 PI = 9.811E+01(N/M2)
HO = 2.619E+07(M/M2-K) (RHO V)1 = 1.022E+01(KG/M2-S)
TW = 297.1 (K) GAP = .497 (CM)
STEP = 0.000(CM) CONF =IN-L

TAW/TT =0.895 FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 ON 90 DEG) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HI (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	N-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	7.65	5.60	7.62	-.02	-7.62	5.70	-7.55	-1.773E-06	.105	.064	-6.910E-10	10.26	.75	.50	.804	-.021	-.001
10	7.65	4.81	7.62	-.02	-7.62	4.93	-7.55	-1.582E-06	.094	.058	-4.827E-10	10.26	.75	.50	.803	-.018	-.001
11	7.65	0.81	7.62	-.02	-7.62	3.74	-7.55	1.239E-05	.208	.006	6.070E-09	10.26	.75	.50	.775	.003	.000
12	7.65	3.00	7.62	-.02	-7.62	2.36	-7.55	-2.465E-05	.004	.003	-7.088E-09	10.26	.76	.50	.803	-.026	-.002
13	7.65	2.00	7.62	-.02	-7.62	1.15	-7.55	-8.629E-05	.072	.044	-4.478E-08	10.26	.76	.50	.800	-.092	-.006
14	7.65	1.00	7.62	-.02	-7.62	.33	-7.55	-1.823E-04	.794	.484	-1.184E-07	10.26	.75	.50	.795	-.194	-.012
15	7.65	0.00	7.62	-.02	-7.62	-.00	-7.55	-1.856E-04	1.000	.609	-1.204E-07	10.26	.75	.50	.795	-.197	-.012
16	7.65	-1.00	7.62	-.02	-7.62	-.33	-7.55	-1.823E-04	1.000	.609	-1.184E-07	10.26	.75	.50	.795	-.194	-.012
17	7.65	-2.00	7.62	-.02	-7.62	-1.15	-7.55	-8.629E-05	.794	.484	-5.604E-08	10.26	.76	.50	.800	-.092	-.006
18	7.65	-3.00	7.62	-.02	-7.62	-2.36	-7.55	-2.465E-05	.072	.044	-1.601E-08	10.26	.76	.50	.803	-.026	-.002
19	7.65	-4.00	7.62	-.02	-7.62	-3.58	-7.55	1.239E-05	.004	.003	8.052E-09	10.26	.76	.50	.803	.003	.000
20	7.65	-4.81	7.62	-.02	-7.62	-4.39	-7.55	1.582E-05	.094	.058	1.028E-08	10.26	.76	.50	.804	.018	.001
21	7.65	-5.60	7.62	-.02	-7.62	-5.17	-7.55	1.773E-05	.105	.064	1.152E-08	10.26	.76	.50	.804	.021	.001
22	7.65	3.00	7.62	.02	7.62	2.39	7.55	1.863E-05	.026	.021	3.798E-08	10.43	.76	.50	.823	.007	.000
23	7.65	2.00	7.62	.02	7.62	1.18	7.55	6.464E-05	.072	.044	1.317E-07	10.43	.76	.50	.820	.024	.001
24	7.65	1.00	7.62	.02	7.62	.36	7.55	.000	.794	.484	1.452E-07	10.43	.76	.50	.815	.148	.009
25	7.65	.00	7.62	.02	7.62	-.00	7.55	.000	1.000	.609	1.828E-07	10.43	.76	.50	.815	.186	.011
26	7.65	-1.00	7.62	.02	7.62	-.36	7.55	.000	1.000	.609	1.828E-07	10.43	.76	.50	.815	.186	.011
27	7.65	-2.00	7.62	.02	7.62	-1.18	7.55	.000	.794	.484	1.452E-07	10.43	.76	.50	.815	.148	.009
28	7.65	-3.00	7.62	.02	7.62	-2.39	7.55	.000	.072	.044	1.317E-08	10.43	.76	.50	.820	.024	.001
29	7.65	-4.00	7.62	.02	7.62	-3.61	7.55	.000	.004	.003	7.315E-09	10.43	.76	.50	.823	.007	.000
30	7.65	-4.81	7.62	.02	7.62	-4.42	7.55	.000	.094	.058	1.707E-08	10.43	.76	.50	.824	.030	.001
31	7.65	-5.60	7.62	.02	7.62	-5.20	7.55	.000	.105	.064	1.913E-08	10.43	.76	.50	.824	.034	.001
32	7.65	-3.79	3.83	-3.79	-7.24	3.03	-7.67	3.277E-03	1.362	.992	3.197E-04	10.22	.74	.50	1.111	1.111	.000
33	7.65	-3.99	3.83	-3.79	-7.24	1.84	-7.67	3.277E-03	1.362	.992	3.197E-04	10.22	.74	.50	1.111	1.111	.000
34	7.65	-3.99	3.83	-3.79	-7.24	.65	-7.67	3.277E-03	1.362	.992	3.197E-04	10.22	.74	.50	1.111	1.111	.000
35	7.65	-3.79	3.83	-3.79	-7.24	-.54	-7.67	3.277E-03	1.362	.992	3.197E-04	10.22	.74	.50	1.111	1.111	.000
36	7.65	-3.79	3.83	-3.79	-7.24	-1.73	-7.67	3.277E-03	1.362	.992	3.197E-04	10.22	.74	.50	1.111	1.111	.000
37	7.65	-3.79	3.83	-3.79	-7.24	-2.92	-7.67	3.277E-03	1.362	.992	3.197E-04	10.22	.74	.50	1.111	1.111	.000
38	7.65	-3.79	3.83	-3.79	-7.24	-4.11	-7.67	3.277E-03	1.362	.992	3.197E-04	10.22	.74	.50	1.111	1.111	.000
39	7.65	-3.79	3.83	-3.79	-7.24	-5.30	-7.67	3.277E-03	1.362	.992	3.197E-04	10.22	.74	.50	1.111	1.111	.000
40	7.65	-3.79	3.83	-3.79	-7.24	-6.49	-7.67	3.277E-03	1.362	.992	3.197E-04	10.22	.74	.50	1.111	1.111	.000
41	7.65	-3.67	3.95	-3.67	-7.62	-7.62	-7.67	1.459E-03	.606	.441	1.441E-04	10.58	.77	.50	.911	.498	.461
42	7.65	-3.62	4.01	-3.62	-7.62	-7.62	-7.88	2.495E-15	.134	.063	7.564E-10	10.58	.77	.50	.803	.048	.003
43	7.65	-7.35	.27	-7.35	-7.62	-5.78	-6.51	9.982E-16	.306	.004	3.952E-09	9.92	.72	.50	.805	.003	.003



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ORIGINAL PAGE IS
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CFMT TEST (92), PDAC-E RSI GAPS, RUN (42) 1973 PAGE 255

MACH = 10.2[illegible]
RX E06 = 13.2[illegible]
RE/ E06 = [illegible]
RE/METER = [illegible]
MO = [illegible]
TW = [illegible]
STEP = 29.[illegible]

TT = [illegible]
PI = 5.[illegible]
T1 = [illegible]
P1 = [illegible]
(RHO V)1 = [illegible]
GSP =IN-L
CONF =IN-L

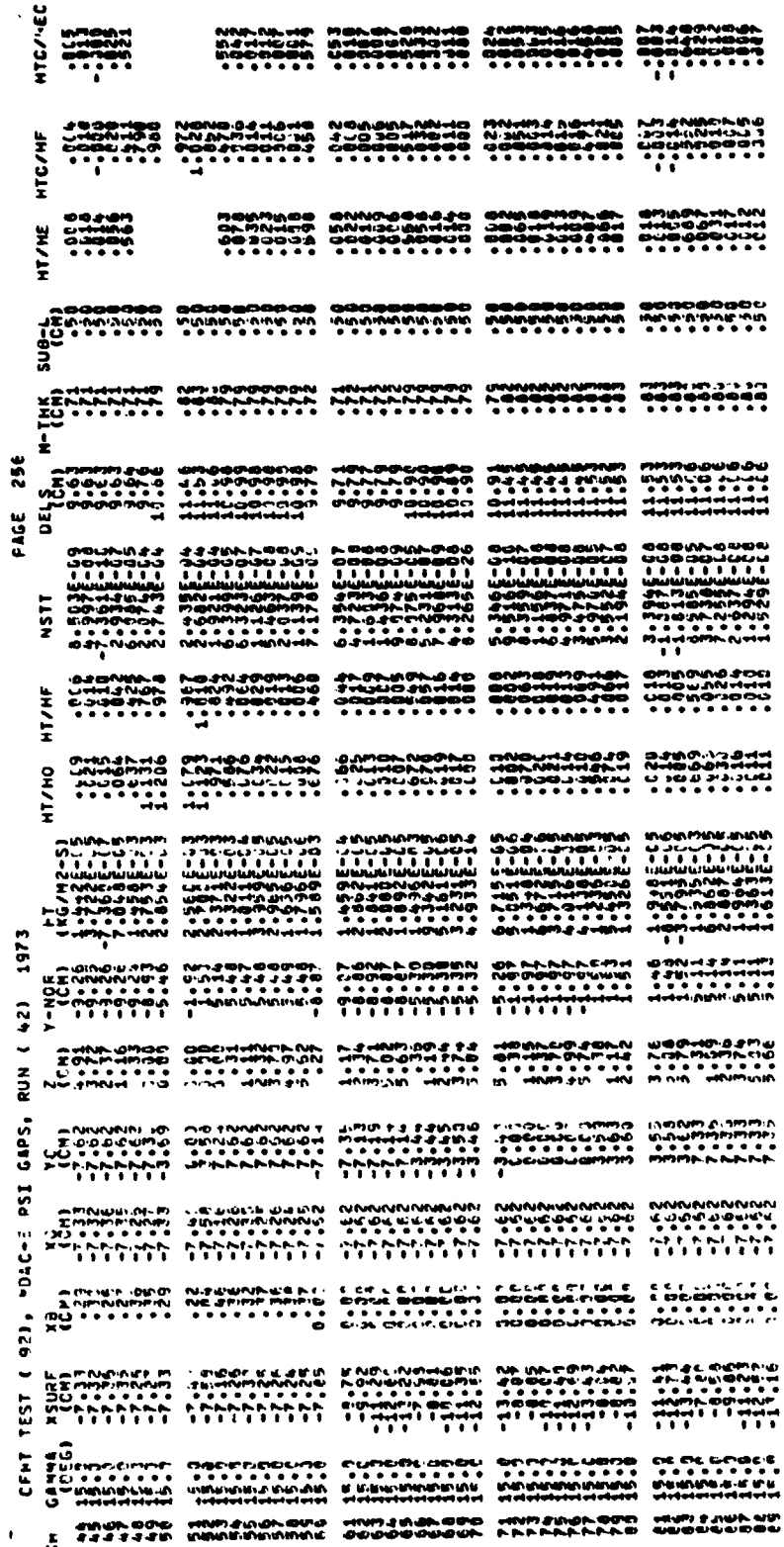
TAW/TT =0.995 FOR MT/HC
XSURF =SURFACE DISTANCE (FLOW ORIENTATION)
MT/HE, GAP HEATING (CONDUCTION CORRECTED) MT/HE
MTC/HE, GAP HEATING (CONDUCTION CORRECTED) MTC/HE

TILE COORDINATES(GAMMA=0.)
XR = R-COOR. FROM TILE LEADER
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER
EDGE AT TILE TOP
RATIOED TO FLAT PLATE

SPECIFIC HEAT CORRECTED

C>	GAMMA (DEG)	XSURF (CM)	XR (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	MT (KG/M2-SEC)	MT/HO	MT/MF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	MT/HE	MTG/MF	MTC/NEC
1	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.023	.883
2	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
15	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
16	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
17	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
18	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
19	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
20	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
21	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
22	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
23	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
24	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
25	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
26	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
27	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
28	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
29	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
30	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
31	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
32	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
33	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
34	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
35	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
36	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
37	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
38	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
39	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
40	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
41	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
42	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
43	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
44	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
45	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
46	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
47	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
48	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
49	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
50	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
51	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
52	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
53	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
54	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
55	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
56	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
57	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
58	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
59	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
60	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
61	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
62	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
63	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
64	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
65	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
66	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
67	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
68	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
69	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
70	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
71	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
72	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
73	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
74	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
75	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
76	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
77	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
78	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
79	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
80	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
81	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
82	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
83	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
84	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
85	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
86	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
87	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
88	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
89	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
90	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
91	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884
92	15.00	0.00	7.662	-7.662	-7.662	5.08	-7.736	1.[illegible]E-05	.112	.809	[illegible]	[illegible]	.75	.50	.338	.024	.884

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CFHT TEST (92), PD: C-E PSI GAPS, RUN (43) 1973

SPECIFIC HEAT CORRECTED

CW	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	N-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
0	30.00	8.82	7.62	0.00	-7.62	5.70	-6.68	2.39E-06	.307	.865	1.25E-09	10.56	.77	.50	.035	.001	.001

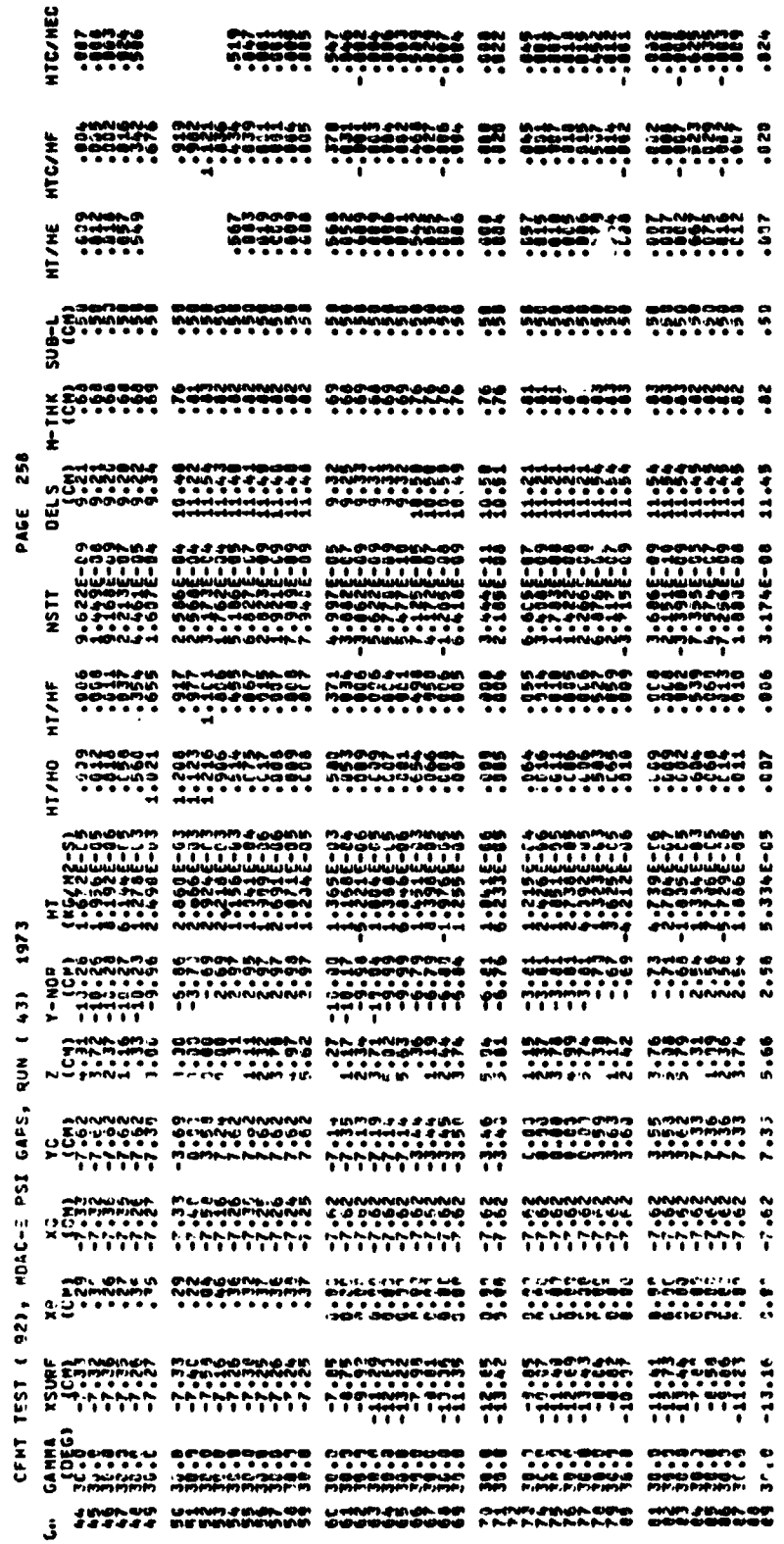
MACH = 17.290
MAX ERR = 3.223E-11
REL/METER = 8.027E-12
RHO = 3.619E-06 (KG/M3)
TW = 294.3 (K)
STEP = 1.000 (CM)

IAM/IT =0.995 FOR HT/HO
XSURF = SURFACE DISTANCE (FLOW DIRECTION)
HT/HE, GAP HEATING RATIO (CONDUCTION CORRECTED HT/HE
HTC/HEC, CONDUCTION CORRECTED HT/HE

TT = 1.216E+03 (K)
PT = 5.174E+06 (N/M2)
PI = 4.799E+01 (K)
PHO VIS = 1.812E-05 (KG/M2-S)
GAP = .635 (CM)
CONF = IN-L

TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER
EDGE AT TILE TOP
RATIOED TO FLAT PLATE

3.4- 85



ORIGINAL PAGE IS
OF POOR QUALITY

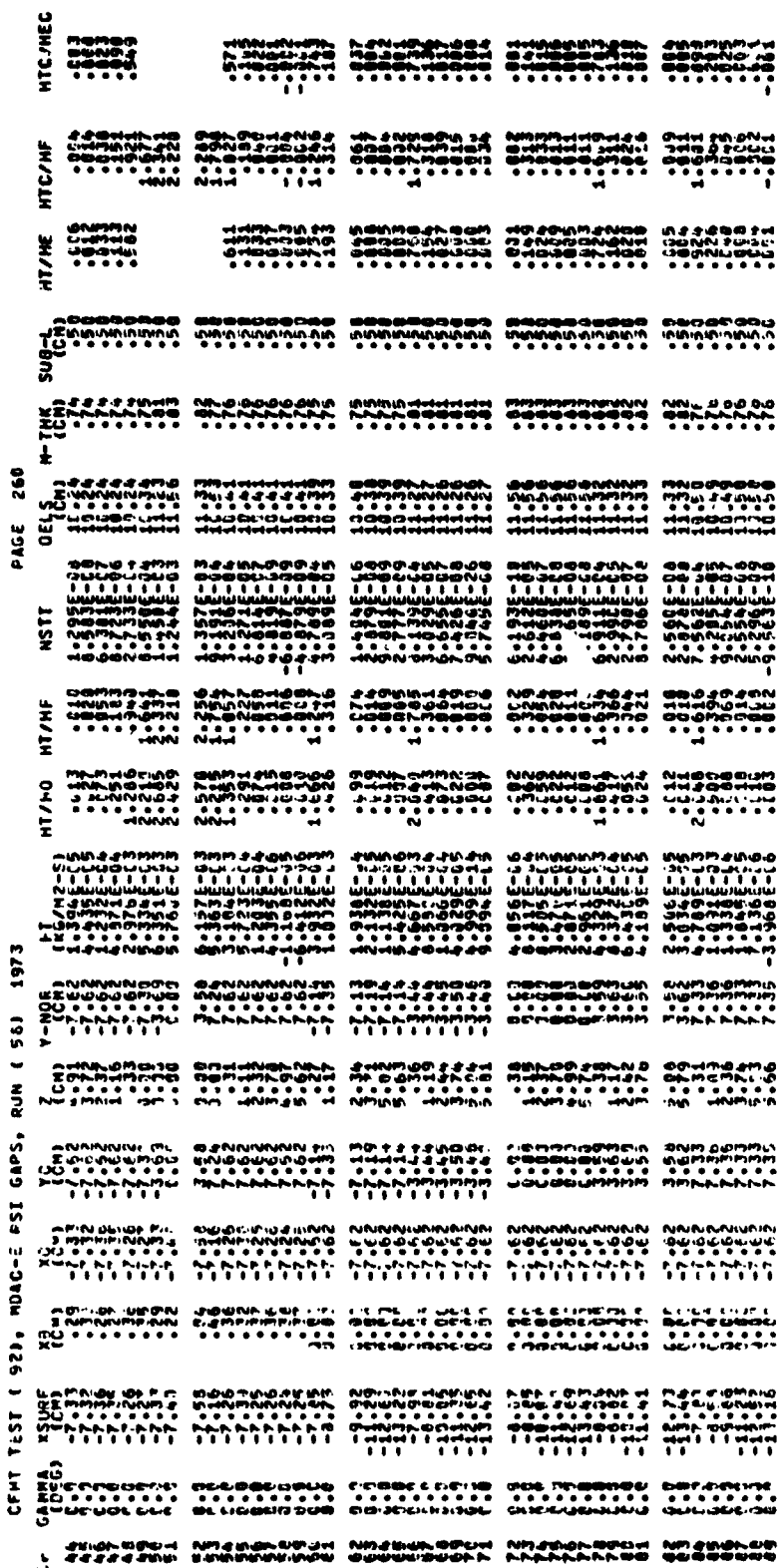
CFHT TEST (92), MDAC-E RSI GAPS, RUN (58) 1973 PAGE 259

MACH = 10.293 TT = 1.004E+03(K)
RX E06 = 3.307E-01 PI = 5.179E+06(N/M2)
RL E06 = 8.257E-02 T1 = 4.732E+01(K)
RE/METER = 3.255E+06 P1 = 9.037E+01(N/M2)
HO = 2.619E+00(W/M2-K) (RHO V)1 = 1.029E+01(KG/M2-S)
TW = 298.7 (K) GAP = .457 (CM)
STEP = .254(CM) CONF =IN-L

TAW/TT =0.89E FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE X9 = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 OR 90 DEG) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	0.0	0.00	7.62	[illegible]	-7.62	5.73	-7.62	-6.471E-06	.010	.007	-4.528E-09	10.24	.74	.50	.008	-.002	-.002
10	0.0	0.00	7.62	[illegible]	-7.62	5.53	-7.62	6.367E-06	.013	.010	6.096E-09	10.24	.74	.50	.010	.002	.002
11	0.0	[illegible]	7.62	[illegible]	-7.62	3.74	-7.62	2.486E-05	.017	.013	3.103E-08	10.24	.74	.50	.014	.008	.008
12	0.0	[illegible]	7.62	[illegible]	-7.62	2.36	-7.62	-7.133E-06	.015	.011	-7.672E-09	10.24	.74	.50	.012	-.002	-.002
13	0.0	[illegible]	7.62	[illegible]	-7.62	1.14	-7.62	9.339E-05	.075	.055	5.004E-07	10.24	.74	.50	.058	.029	[illegible]
14	0.0	[illegible]	7.62	[illegible]	-7.62	.33	-7.62	1.642E-03	.718	.525	8.415E-05	10.24	.74	.50	.559	.508	.532
15	0.0	[illegible]	7.62	[illegible]	-7.29	0.00	-7.29	3.034E-03	1.284	.954	2.828E-04	10.35	.75	.50		.959	
16	0.0	[illegible]	7.62	[illegible]	-3.63	[illegible]	-3.63	3.136E-03	1.326	1.155	3.540E-04	11.24	.81	.50		1.157	
17	0.0	[illegible]	7.62	[illegible]	[illegible]	[illegible]	[illegible]	3.023E-03	1.289	1.173	3.463E-04	11.56	.83	.50		[illegible]	
18	0.0	[illegible]	7.62	[illegible]	3.54	[illegible]	3.54	3.011E-03	1.310	1.151	3.385E-04	11.33	.82	.50		[illegible]	
19	0.0	[illegible]	7.62	[illegible]	7.27	[illegible]	7.27	3.153E-03	1.363	1.094	3.401E-04	10.52	.77	.50		[illegible]	
20																	
21	0.0	0.00	7.62	0.00	7.62	1.17	7.62	1.737E-04	.095	.074	1.239E-06	10.41	.76	.50	.069	.056	.053
22	0.0	0.00	7.62	0.00	7.62	2.39	7.62	2.064E-05	.033	.023	4.605E-08	10.41	.76	.50	.021	.007	.006
23	0.0	[illegible]	7.62	[illegible]	7.62	3.70	7.62	3.295E-05	.019	.014	4.657E-08	10.41	.76	.50	.013	.011	.010
24	0.0	[illegible]	7.62	[illegible]	7.62	3.07	7.62	4.384E-05	.015	.011	4.914E-08	10.41	.76	.50	.011	.015	.014
25	0.0	[illegible]	7.62	[illegible]	7.62	2.73	7.62	6.396E-05	.019	.015	9.015E-08	10.41	.76	.50	.014	.021	.020
26	0.0	-3.76	3.86	-3.76	-7.62	3.70	-7.62	2.358E-05	.013	.009	2.152E-08	10.24	.74	.50	.009	.037	.007
27	0.0	-3.80	3.82	-3.80	-7.62	3.84	-7.62	2.614E-05	.015	.011	2.047E-08	10.24	.74	.50	.011	.008	.008
28	0.0	-3.76	3.85	-3.76	-7.62	3.72	-7.62	1.330E-05	.013	.009	1.272E-08	10.24	.74	.50	.009	.004	.004
29	0.0	-3.81	3.81	-3.81	-7.62	2.44	-7.62	[illegible]	.019	.014	1.490E-09	10.24	.74	.50	.014	.000	.000
30	0.0	-3.93	3.49	-3.93	-7.62	1.16	-7.62	7.655E-05	.065	.047	3.546E-07	10.24	.74	.50	.047	.024	.023
31	0.0	-3.67	3.75	-3.87	-7.62	.33	-7.62	1.676E-03	.728	.532	8.710E-05	10.24	.74	.50	.532	.519	.508
32	0.0	-3.79	3.83	-3.79	-7.24	0.00	-7.24	3.289E-03	1.369	1.029	3.275E-04	10.36	.75	.50		1.037	
33	0.0	-3.92	3.77	-3.92	-3.71	0.00	-3.71	[illegible]	1.530	1.331	4.708E-04	11.22	.81	.50		1.334	
34	0.0	-3.95	3.67	-3.95	[illegible]	[illegible]	[illegible]	[illegible]	1.457	1.326	4.459E-04	11.56	.83	.50		1.327	
35	0.0	-3.89	3.73	-3.89	3.59	0.00	3.59	3.504E-03	1.515	1.330	4.655E-04	11.32	.82	.50		1.332	
36	0.0	-3.74	[illegible]	-3.74	7.23	0.00	7.28	3.329E-03	1.383	1.094	3.557E-04	10.52	.77	.50		1.115	
37	0.0	-3.73	[illegible]	-3.73	7.62	.37	7.62	1.434E-03	.632	.494	6.919E-05	10.41	.76	.50	.457	.474	.425
38	0.0	-3.74	3.86	[illegible]	7.62	1.15	7.62	5.019E-05	.063	.049	2.421E-07	10.41	.76	.50	.046	.017	.015
39	0.0	-3.83	3.82	[illegible]	7.62	2.35	7.62	-1.272E-05	.017	.014	-1.600E-08	10.41	.76	.50	.013	-.004	-.004
40	0.0	-3.83	3.82	[illegible]	7.62	3.62	7.62	2.761E-05	.015	.012	3.107E-08	10.41	.76	.50	.011	.009	.008
41	0.0	-3.67	[illegible]	[illegible]	7.62	5.04	7.62	1.015E-05	.014	.011	1.094E-08	10.41	.76	.50	.010	.003	.003
42	0.0	-3.63	[illegible]	-3.62	7.62	3.60	7.62	2.768E-05	.037	.006	1.529E-08	10.41	.76	.50	.005	.009	.008
43	0.0	-7.35	.27	-7.35	-7.62	5.73	-7.62	-7.617E-06	.003	.002	-1.674E-09	10.24	.74	.50	.001	-.002	-.001

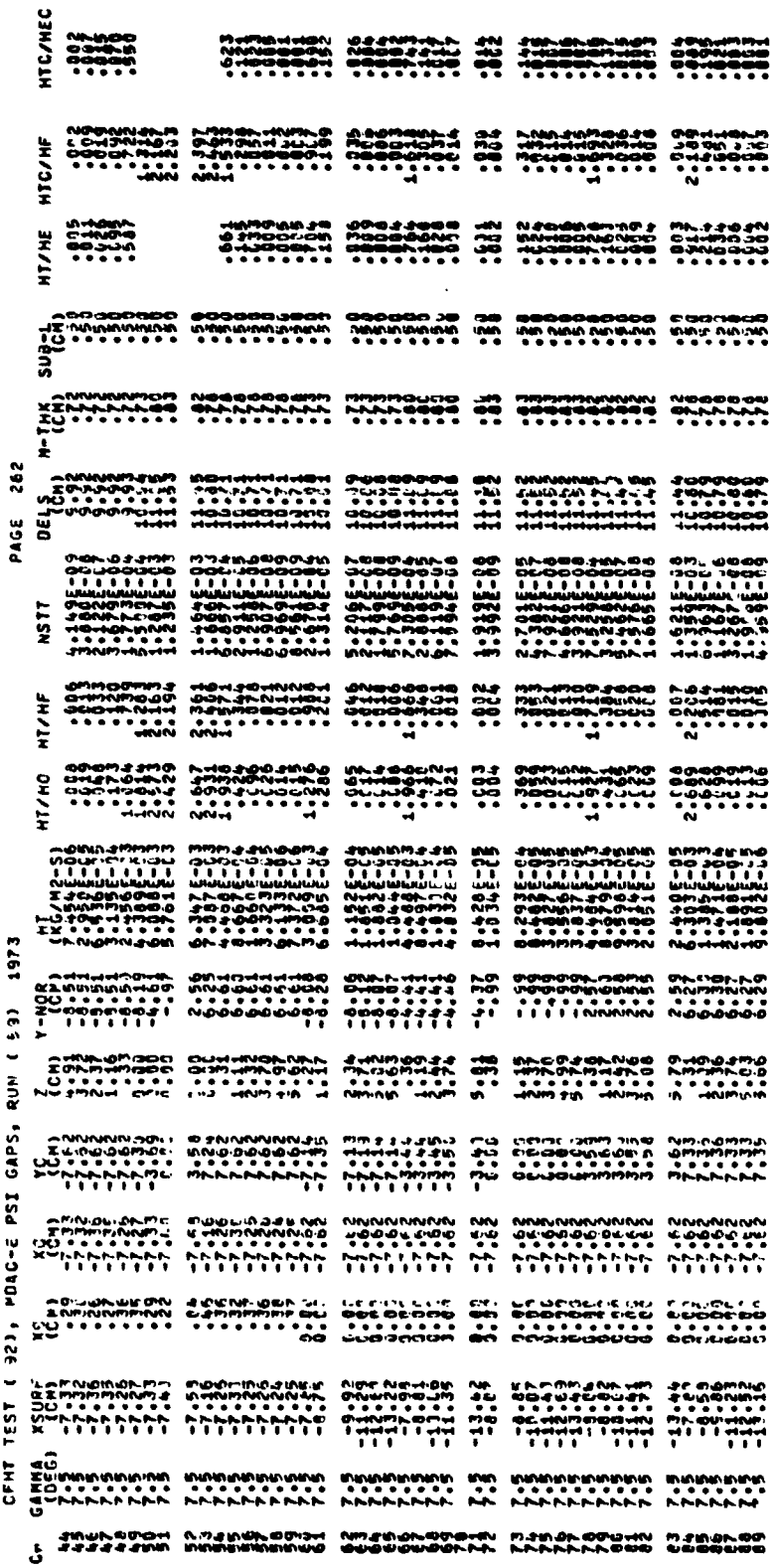
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CFMT TEST (923), MDAC-E RSI GAPS, RUN (59) 1973 PAGE 261

SPECIFIC HEAT CORRECTED

CH	GAMMA (DEG)	XSURF (CM)	XC (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	H-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/MEC
98	7.55	8.80	-7.62	5.03	1.17E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
99	7.55	8.63	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
100	7.55	8.46	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
101	7.55	8.29	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
102	7.55	8.12	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
103	7.55	7.95	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
104	7.55	7.78	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
105	7.55	7.61	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
106	7.55	7.44	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
107	7.55	7.27	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
108	7.55	7.10	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
109	7.55	6.93	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
110	7.55	6.76	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
111	7.55	6.59	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
112	7.55	6.42	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
113	7.55	6.25	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
114	7.55	6.08	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
115	7.55	5.91	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
116	7.55	5.74	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
117	7.55	5.57	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
118	7.55	5.40	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
119	7.55	5.23	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
120	7.55	5.06	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
121	7.55	4.89	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
122	7.55	4.72	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
123	7.55	4.55	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
124	7.55	4.38	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
125	7.55	4.21	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
126	7.55	4.04	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
127	7.55	3.87	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
128	7.55	3.70	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
129	7.55	3.53	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
130	7.55	3.36	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
131	7.55	3.19	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
132	7.55	3.02	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
133	7.55	2.85	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
134	7.55	2.68	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
135	7.55	2.51	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
136	7.55	2.34	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
137	7.55	2.17	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
138	7.55	2.00	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
139	7.55	1.83	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
140	7.55	1.66	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
141	7.55	1.49	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
142	7.55	1.32	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
143	7.55	1.15	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
144	7.55	.98	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
145	7.55	.81	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
146	7.55	.64	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
147	7.55	.47	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
148	7.55	.30	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
149	7.55	.13	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
150	7.55	-.04	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
151	7.55	-.21	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
152	7.55	-.38	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
153	7.55	-.55	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
154	7.55	-.72	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
155	7.55	-.89	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
156	7.55	-1.06	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
157	7.55	-1.23	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
158	7.55	-1.40	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
159	7.55	-1.57	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
160	7.55	-1.74	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
161	7.55	-1.91	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
162	7.55	-2.08	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
163	7.55	-2.25	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
164	7.55	-2.42	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
165	7.55	-2.59	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
166	7.55	-2.76	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
167	7.55	-2.93	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
168	7.55	-3.10	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
169	7.55	-3.27	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
170	7.55	-3.44	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
171	7.55	-3.61	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
172	7.55	-3.78	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
173	7.55	-3.95	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
174	7.55	-4.12	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
175	7.55	-4.29	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
176	7.55	-4.46	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
177	7.55	-4.63	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
178	7.55	-4.80	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
179	7.55	-4.97	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
180	7.55	-5.14	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
181	7.55	-5.31	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
182	7.55	-5.48	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
183	7.55	-5.65	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
184	7.55	-5.82	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
185	7.55	-5.99	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
186	7.55	-6.16	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
187	7.55	-6.33	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
188	7.55	-6.50	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
189	7.55	-6.67	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
190	7.55	-6.84	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
191	7.55	-7.01	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
192	7.55	-7.18	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
193	7.55	-7.35	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
194	7.55	-7.52	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
195	7.55	-7.69	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
196	7.55	-7.86	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
197	7.55	-8.03	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
198	7.55	-8.20	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
199	7.55	-8.37	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848
200	7.55	-8.54	-7.62	5.03	1.36E-04	.079	.362	6.31E-07	10.43	.76	.56	.664	.845	.848



ORIGINAL PAGE IS
OF POOR QUALITY

CFHT TEST (92), MDAC-E RSI GAPS, RUN (69) 1973 PAGE 263

MACH = 10.29		TT = 1.086E+03 (K)	
RX E06 = 3.299E-01		PT = 5.107E+06 (N/M2)	
RL E06 = 3.248E-02		T1 = 4.741E+01 (K)	
RE/METER = 3.247E+06		P1 = 9.843E+01 (N/M2)	
HO = 2.619E+03 (W/M2-K)		(RHO V)1 = 1.329E+01 (KG/M2-S)	
TW = 298.1 (K)		GAP = .457 (CM)	
STEP = .254 (CM)		CONF = IN-L	

TAW/TT = 0.895 FOR HT/HO
XSURF = SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)

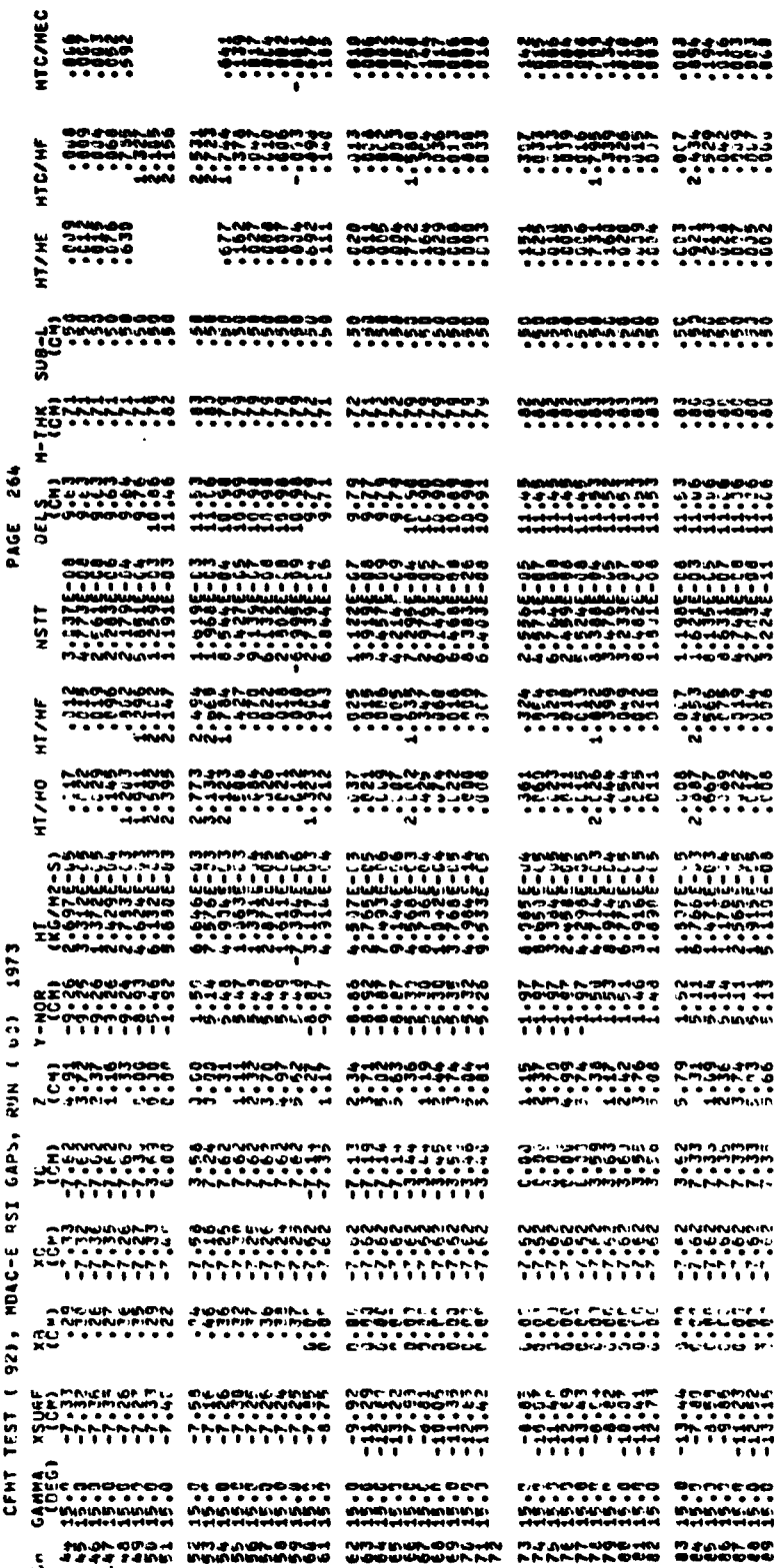
TILE COORDINATES (GAMMA=0.0)
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	15.0	0.00	7.62	0.00	-7.62	3.70	-7.36	-1.088E-05	.008	.006	-6.553E-09	10.32	.75	.50	.004	-.003	-.002
10	15.0	0.00	7.62	0.00	-7.62	3.33	-7.36	6.487E-06	.013	.010	6.302E-09	10.32	.75	.50	.006	.002	.001
11	15.0	0.00	7.62	0.00	-7.62	3.74	-7.36	3.897E-05	.019	.014	4.298E-08	10.32	.75	.50	.009	.010	.006
12	15.0	0.00	7.62	0.00	-7.62	2.36	-7.36	-6.365E-06	.020	.015	-9.412E-09	10.32	.75	.50	.009	-.002	-.001
13	15.0	0.00	7.62	0.00	-7.62	1.14	-7.36	3.848E-04	.201	.149	5.597E-06	10.32	.75	.50	.092	.121	.073
14	15.0	0.00	7.62	0.00	-7.62	.33	-7.36	3.622E-03	1.558	1.154	4.081E-04	10.32	.75	.50	.716	1.138	.698
15	15.0	0.00	7.62	0.00	-7.29	0.00	-7.04	5.166E-03	2.175	1.636	6.253E-04	10.42	.76	.50		1.645	
16	15.0	0.00	7.62	0.00	-3.63	0.00	-3.51	3.006E-03	1.271	1.111	3.262E-04	11.26	.81	.50		1.112	
17	15.0	0.00	7.62	0.00	0.00	0.00	0.01	3.017E-03	1.283	1.167	3.432E-04	11.56	.83	.50		1.160	
18	15.0	0.00	7.62	0.00	3.54	0.00	3.42	3.017E-03	1.317	1.159	3.415E-04	11.35	.82	.50		1.154	
19	15.0	0.00	7.62	0.00	7.27	0.00	7.02	2.593E-03	1.150	.916	2.326E-04	10.59	.77	.50		.877	
20	15.0	0.00	7.62	0.00	7.62	.41	7.36	1.329E-06	.000	.000	3.453E-11	10.49	.76	.50	.000	.000	.000
21	15.0	0.00	7.62	0.00	7.62	1.17	7.36	1.321E-04	.078	.062	7.966E-07	10.49	.76	.50	.068	.044	.050
22	15.0	0.00	7.62	0.00	7.62	2.39	7.36	2.907E-05	.033	.026	7.381E-08	10.49	.76	.50	.029	.018	.011
23	15.0	0.00	7.62	0.00	7.62	3.70	7.36	3.374E-05	.019	.015	5.027E-08	10.49	.76	.50	.017	.011	.013
24	15.0	0.00	7.62	0.00	7.62	3.37	7.36	4.374E-05	.015	.012	5.097E-08	10.49	.76	.50	.013	.015	.017
25	15.0	0.00	7.62	0.00	7.62	3.73	7.36	6.232E-05	.019	.015	9.282E-08	10.49	.76	.50	.017	.021	.025
26	15.0	-3.76	3.86	-3.76	-7.62	5.70	-8.33	2.620E-05	.014	.010	2.571E-08	9.99	.73	.50	.007	.008	.005
27	15.0	-3.80	3.82	-3.80	-7.62	5.34	-8.34	3.445E-05	.019	.013	4.466E-08	9.98	.73	.50	.009	.010	.007
28	15.0	-3.75	3.90	-3.76	-7.62	3.72	-8.33	1.051E-05	.011	.008	7.948E-09	9.99	.73	.50	.006	.003	.002
29	15.0	-3.81	3.81	-3.81	-7.62	2.44	-8.35	-2.252E-05	.014	.010	-2.226E-08	9.98	.73	.50	.007	-.007	-.005
30	15.0	-3.83	3.79	-3.83	-7.62	1.16	-8.35	3.185E-04	.168	.117	3.653E-06	9.98	.73	.50	.084	.094	.065
31	15.0	-3.87	3.75	-3.87	-7.62	.33	-8.36	3.339E-03	1.432	1.003	3.276E-04	9.98	.73	.50	.718	.990	.682
32	15.0	-3.79	3.83	-3.79	-7.24	0.00	-7.99	4.737E-03	1.995	1.428	6.678E-04	10.12	.74	.50		1.451	
33	15.0	-3.92	3.70	-3.92	-3.71	0.00	-4.60	3.375E-03	1.427	1.240	3.958E-04	11.36	.80	.50		1.232	
34	15.0	-3.95	3.67	-3.95	0.00	0.00	-1.02	3.470E-03	1.468	1.325	4.490E-04	11.52	.83	.50		1.326	
35	15.0	-3.89	3.73	-3.89	3.59	0.00	2.46	3.693E-03	1.561	1.393	5.026E-04	11.46	.82	.50		1.396	
36	15.0	-3.74	3.58	-3.74	7.28	0.00	6.06	3.237E-03	1.333	1.109	3.446E-04	10.85	.79	.50		1.121	
37	15.0	-3.79	3.83	-3.79	7.62	.37	6.38	1.144E-03	.510	.417	4.660E-05	10.77	.78	.50	.383	.396	.353
38	15.0	-3.74	3.88	-3.74	7.62	1.15	6.39	2.929E-05	.056	.045	1.298E-07	10.76	.78	.50	.042	.013	.009
39	15.0	-3.87	3.92	-3.87	7.62	2.35	6.38	1.845E-05	.030	.023	4.421E-08	10.77	.78	.50	.023	.008	.006
40	15.0	-3.80	3.82	-3.80	7.62	3.62	6.38	4.247E-05	.022	.018	7.605E-08	10.77	.78	.50	.017	.015	.013
41	15.0	-3.67	3.95	-3.67	7.62	5.04	6.41	2.661E-05	.020	.016	4.279E-08	10.76	.78	.50	.015	.009	.008
42	15.0	-3.62	4.00	-3.62	7.62	5.68	6.42	5.153E-05	.016	.013	6.513E-08	10.76	.78	.50	.012	.016	.016
43	15.0	-7.38	.27	-7.38	-7.62	5.73	-9.26	1.223E-05	.010	.010	7.584E-09	9.63	.71	.50	.005	.003	.003

3.4-119


CFHT TEST (92), MDAC-E RSI GAPS, RUN (03) 1973
PAGE 264
GAMMA (DEG)
XSURF (CM)
XB (CM)
XC (CM)
YB (CM)
Z (CM)
Y-NOR (CM)
HT (KG/CM2-S)
HT/HO
HT/HF
NSTT
DELS (CM)
M-THK (CM)
SUB-L (CM)
HT/HE
HTG/HF
HTC/MEC

3.4-12

CFMT TEST (92), MDAC-E RSI GAPS, RUN (61) 1973

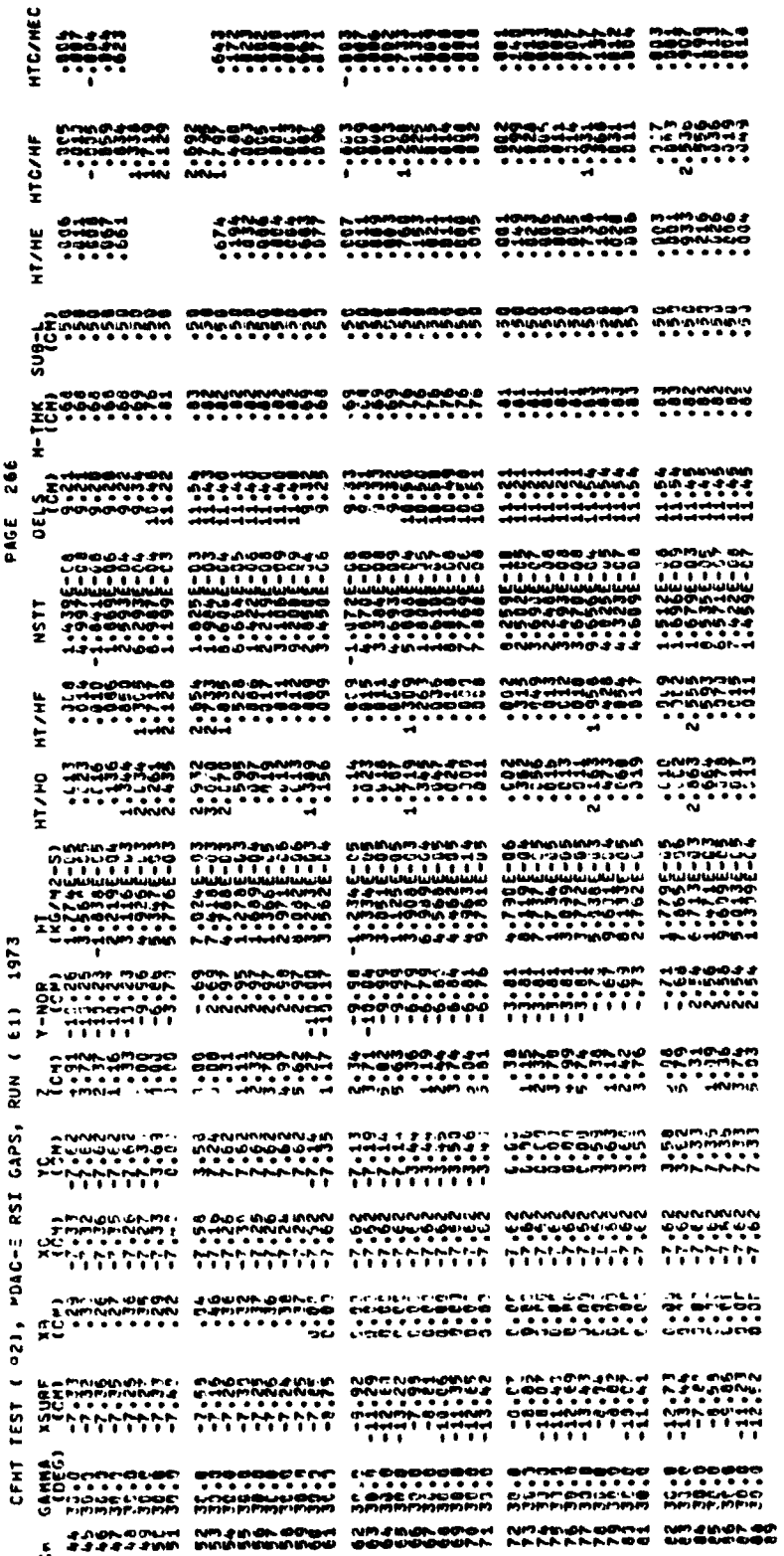
SPECIFIC HEAT CORRECTED

TILE COORDINATES(GAMMA=0.)
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

XSURF =SURFACE DISTANCE (FLOW DIRECTION) FROM STAG. PT.
HT/HE = GAP HEATING RATIO TO EDGE AI TILE TOP
HTC/HEC, CONDUCTION CORRECTED HT/HE

TANYTT =0.395 FCR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) FROM STAG. PT.
HTC/HEC, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Y-NOR (CM)	Z (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	1.009E+03	.987	.835	-4.035E-03	.566	.727	.000	.852	-.133	-.001
2	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	9.816E+02	.960	.812	-6.911E-03	.566	.727	.000	.829	-.130	-.001
3	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	9.618E+02	.940	.796	-9.611E-03	.566	.727	.000	.813	-.127	-.001
4	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	9.447E+02	.923	.781	-1.205E-02	.566	.727	.000	.798	-.125	-.001
5	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	9.299E+02	.909	.769	-1.424E-02	.566	.727	.000	.786	-.123	-.001
6	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	9.170E+02	.896	.758	-1.622E-02	.566	.727	.000	.775	-.121	-.001
7	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	9.056E+02	.885	.749	-1.803E-02	.566	.727	.000	.765	-.120	-.001
8	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.954E+02	.875	.740	-1.970E-02	.566	.727	.000	.757	-.118	-.001
9	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.862E+02	.866	.733	-2.124E-02	.566	.727	.000	.749	-.117	-.001
10	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.779E+02	.858	.726	-2.268E-02	.566	.727	.000	.742	-.116	-.001
11	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.703E+02	.850	.720	-2.403E-02	.566	.727	.000	.736	-.115	-.001
12	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.633E+02	.844	.714	-2.531E-02	.566	.727	.000	.730	-.114	-.001
13	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.569E+02	.837	.708	-2.653E-02	.566	.727	.000	.724	-.113	-.001
14	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.509E+02	.832	.704	-2.768E-02	.566	.727	.000	.719	-.112	-.001
15	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.454E+02	.826	.699	-2.879E-02	.566	.727	.000	.715	-.112	-.001
16	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.403E+02	.821	.695	-2.984E-02	.566	.727	.000	.710	-.111	-.001
17	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.355E+02	.817	.691	-3.085E-02	.566	.727	.000	.706	-.110	-.001
18	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.310E+02	.812	.687	-3.181E-02	.566	.727	.000	.702	-.109	-.001
19	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.268E+02	.808	.684	-3.274E-02	.566	.727	.000	.699	-.109	-.001
20	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.228E+02	.804	.680	-3.363E-02	.566	.727	.000	.695	-.108	-.001
21	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.190E+02	.800	.677	-3.449E-02	.566	.727	.000	.692	-.108	-.001
22	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.154E+02	.797	.674	-3.531E-02	.566	.727	.000	.689	-.107	-.001
23	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.120E+02	.793	.671	-3.611E-02	.566	.727	.000	.686	-.107	-.001
24	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.087E+02	.790	.669	-3.688E-02	.566	.727	.000	.683	-.106	-.001
25	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.056E+02	.787	.666	-3.762E-02	.566	.727	.000	.681	-.106	-.001
26	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	8.026E+02	.784	.663	-3.834E-02	.566	.727	.000	.678	-.105	-.001
27	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.997E+02	.781	.661	-3.904E-02	.566	.727	.000	.676	-.105	-.001
28	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.969E+02	.778	.659	-3.972E-02	.566	.727	.000	.673	-.104	-.001
29	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.943E+02	.776	.657	-4.038E-02	.566	.727	.000	.671	-.104	-.001
30	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.917E+02	.773	.655	-4.102E-02	.566	.727	.000	.669	-.104	-.001
31	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.893E+02	.771	.653	-4.165E-02	.566	.727	.000	.667	-.103	-.001
32	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.869E+02	.768	.651	-4.226E-02	.566	.727	.000	.665	-.103	-.001
33	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.847E+02	.766	.649	-4.286E-02	.566	.727	.000	.663	-.103	-.001
34	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.825E+02	.764	.647	-4.344E-02	.566	.727	.000	.661	-.102	-.001
35	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.804E+02	.762	.646	-4.401E-02	.566	.727	.000	.659	-.102	-.001
36	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.784E+02	.760	.644	-4.457E-02	.566	.727	.000	.658	-.102	-.001
37	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.765E+02	.758	.642	-4.512E-02	.566	.727	.000	.656	-.101	-.001
38	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.746E+02	.756	.641	-4.566E-02	.566	.727	.000	.654	-.101	-.001
39	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.728E+02	.754	.639	-4.619E-02	.566	.727	.000	.653	-.101	-.001
40	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.711E+02	.752	.638	-4.671E-02	.566	.727	.000	.651	-.101	-.001
41	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.694E+02	.751	.636	-4.722E-02	.566	.727	.000	.650	-.100	-.001
42	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.678E+02	.749	.635	-4.772E-02	.566	.727	.000	.648	-.100	-.001
43	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.662E+02	.747	.634	-4.821E-02	.566	.727	.000	.647	-.100	-.001
44	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.647E+02	.746	.632	-4.870E-02	.566	.727	.000	.646	-.100	-.001
45	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.632E+02	.744	.631	-4.917E-02	.566	.727	.000	.644	-.099	-.001
46	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.618E+02	.743	.630	-4.964E-02	.566	.727	.000	.643	-.099	-.001
47	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.604E+02	.741	.629	-5.010E-02	.566	.727	.000	.642	-.099	-.001
48	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.591E+02	.740	.628	-5.055E-02	.566	.727	.000	.641	-.099	-.001
49	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.578E+02	.738	.627	-5.100E-02	.566	.727	.000	.640	-.099	-.001
50	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.565E+02	.737	.626	-5.144E-02	.566	.727	.000	.639	-.098	-.001
51	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.553E+02	.736	.625	-5.187E-02	.566	.727	.000	.638	-.098	-.001
52	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.541E+02	.735	.624	-5.230E-02	.566	.727	.000	.637	-.098	-.001
53	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.530E+02	.733	.623	-5.272E-02	.566	.727	.000	.636	-.098	-.001
54	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.519E+02	.732	.622	-5.313E-02	.566	.727	.000	.635	-.098	-.001
55	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.508E+02	.731	.621	-5.354E-02	.566	.727	.000	.634	-.098	-.001
56	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.497E+02	.730	.620	-5.394E-02	.566	.727	.000	.633	-.097	-.001
57	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.487E+02	.729	.619	-5.433E-02	.566	.727	.000	.632	-.097	-.001
58	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.477E+02	.728	.618	-5.472E-02	.566	.727	.000	.631	-.097	-.001
59	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.467E+02	.727	.617	-5.510E-02	.566	.727	.000	.630	-.097	-.001
60	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.457E+02	.726	.616	-5.548E-02	.566	.727	.000	.629	-.097	-.001
61	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.448E+02	.725	.616	-5.585E-02	.566	.727	.000	.628	-.097	-.001
62	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.439E+02	.724	.615	-5.622E-02	.566	.727	.000	.628	-.097	-.001
63	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.430E+02	.723	.614	-5.658E-02	.566	.727	.000	.627	-.096	-.001
64	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.421E+02	.722	.613	-5.694E-02	.566	.727	.000	.626	-.096	-.001
65	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.412E+02	.721	.612	-5.729E-02	.566	.727	.000	.625	-.096	-.001
66	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.404E+02	.720	.612	-5.764E-02	.566	.727	.000	.624	-.096	-.001
67	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.396E+02	.719	.611	-5.798E-02	.566	.727	.000	.623	-.096	-.001
68	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.388E+02	.718	.610	-5.832E-02	.566	.727	.000	.623	-.096	-.001
69	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.380E+02	.717	.609	-5.866E-02	.566	.727	.000	.622	-.096	-.001
70	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.372E+02	.716	.609	-5.899E-02	.566	.727	.000	.621	-.096	-.001
71	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.364E+02	.715	.608	-5.932E-02	.566	.727	.000	.620	-.095	-.001
72	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.357E+02	.714	.607	-5.964E-02	.566	.727	.000	.620	-.095	-.001
73	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.349E+02	.713	.607	-5.996E-02	.566	.727	.000	.619	-.095	-.001
74	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.342E+02	.712	.606	-6.028E-02	.566	.727	.000	.618	-.095	-.001
75	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.335E+02	.712	.605	-6.059E-02	.566	.727	.000	.618	-.095	-.001
76	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.328E+02	.711	.605	-6.090E-02	.566	.727	.000	.617	-.095	-.001
77	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.321E+02	.710	.604	-6.120E-02	.566	.727	.000	.616	-.095	-.001
78	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.314E+02	.709	.604	-6.150E-02	.566	.727	.000	.616	-.095	-.001
79	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.307E+02	.708	.603	-6.180E-02	.566	.727	.000	.615	-.095	-.001
80	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.301E+02	.707	.602	-6.209E-02	.566	.727	.000	.614	-.095	-.001
81	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.294E+02	.707	.602	-6.238E-02	.566	.727	.000	.614	-.094	-.001
82	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.288E+02	.706	.601	-6.267E-02	.566	.727	.000	.613	-.094	-.001
83	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.282E+02	.705	.601	-6.295E-02	.566	.727	.000	.613	-.094	-.001
84	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.275E+02	.704	.600	-6.323E-02	.566	.727	.000	.612	-.094	-.001
85	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.269E+02	.704	.599	-6.351E-02	.566	.727	.000	.611	-.094	-.001
86	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.263E+02	.703	.599	-6.378E-02	.566	.727	.000	.611	-.094	-.001
87	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.257E+02	.702	.598	-6.406E-02	.566	.727	.000	.610	-.094	-.001
88	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.252E+02	.702	.598	-6.433E-02	.566	.727	.000	.610	-.094	-.001
89	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.246E+02	.701	.597	-6.459E-02	.566	.727	.000	.609	-.094	-.001
90	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.240E+02	.700	.597	-6.486E-02	.566	.727	.000	.609	-.094	-.001
91	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.234E+02	.700	.596	-6.512E-02	.566	.727	.000	.608	-.094	-.001
92	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.229E+02	.699	.596	-6.538E-02	.566	.727	.000	.608	-.094	-.001
93	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.223E+02	.698	.595	-6.564E-02	.566	.727	.000	.607	-.094	-.001
94	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.218E+02	.698	.595	-6.589E-02	.566	.727	.000	.607	-.094	-.001
95	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.212E+02	.697	.594	-6.615E-02	.566	.727	.000	.606	-.093	-.001
96	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.207E+02	.697	.594	-6.640E-02	.566	.727	.000	.606	-.093	-.001
97	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.202E+02	.696	.593	-6.665E-02	.566	.727	.000	.605	-.093	-.001
98	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.197E+02	.695	.593	-6.690E-02	.566	.727	.000	.605	-.093	-.001
99	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.192E+02	.695	.592	-6.715E-02	.566	.727	.000	.605	-.093	-.001
100	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.187E+02	.694	.592	-6.739E-02	.566	.727	.000	.604	-.093	-.001
101	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.182E+02	.694	.592	-6.764E-02	.566	.727	.000	.604	-.093	-.001
102	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.177E+02	.693	.591	-6.788E-02	.566	.727	.000	.603	-.093	-.001
103	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.172E+02	.693	.591	-6.812E-02	.566	.727	.000	.603	-.093	-.001
104	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.167E+02	.692	.590	-6.836E-02	.566	.727	.000	.602	-.093	-.001
105	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.163E+02	.692	.590	-6.860E-02	.566	.727	.000	.602	-.093	-.001
106	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.158E+02	.691	.589	-6.883E-02	.566	.727	.000	.602	-.093	-.001
107	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.153E+02	.691	.589	-6.907E-02	.566	.727	.000	.601	-.093	-.001
108	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.149E+02	.690	.589	-6.930E-02	.566	.727	.000	.601	-.093	-.001
109	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.144E+02	.690	.588	-6.953E-02	.566	.727	.000	.600	-.093	-.001
110	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.140E+02	.689	.588	-6.976E-02	.566	.727	.000	.600	-.093	-.001
111	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.135E+02	.689	.588	-6.999E-02	.566	.727	.000	.600	-.093	-.001
112	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.131E+02	.688	.587	-7.021E-02	.566	.727	.000	.599	-.093	-.001
113	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.126E+02	.688	.587	-7.044E-02	.566	.727	.000	.599	-.093	-.001
114	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.122E+02	.687	.587	-7.066E-02	.566	.727	.000	.598	-.093	-.001
115	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.118E+02	.687	.586	-7.088E-02	.566	.727	.000	.598	-.093	-.001
116	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.113E+02	.686	.586	-7.110E-02	.566	.727	.000	.598	-.093	-.001
117	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.109E+02	.686	.586	-7.132E-02	.566	.727	.000	.597	-.093	-.001
118	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.105E+02	.685	.585	-7.154E-02	.566	.727	.000	.597	-.093	-.001
119	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.101E+02	.685	.585	-7.175E-02	.566	.727	.000	.596	-.093	-.001
120	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.096E+02	.684	.585	-7.197E-02	.566	.727	.000	.596	-.093	-.001
121	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.092E+02	.684	.584	-7.218E-02	.566	.727	.000	.596	-.093	-.001
122	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.088E+02	.683	.584	-7.239E-02	.566	.727	.000	.595	-.093	-.001
123	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.084E+02	.683	.584	-7.260E-02	.566	.727	.000	.595	-.093	-.001
124	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.080E+02	.682	.583	-7.281E-02	.566	.727	.000	.594	-.093	-.001
125	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.076E+02	.682	.583	-7.302E-02	.566	.727	.000	.594	-.093	-.001
126	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.072E+02	.681	.583	-7.322E-02	.566	.727	.000	.594	-.093	-.001
127	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.068E+02	.681	.582	-7.343E-02	.566	.727	.000	.593	-.093	-.001
128	0.0	7.662	7.662	-7.662	-7.662	-6.662	2.736	7.064E+02	.681	.582	-7.363E-02	.566	.727	.000	.593	-.093	-.001



ORIGINAL PAGE IS
OF POOR QUALITY

CFMT TEST (92), MOAC-E RSI GAPS, RUN (76) 1973

SPECIFIC HEAT CORRECTED

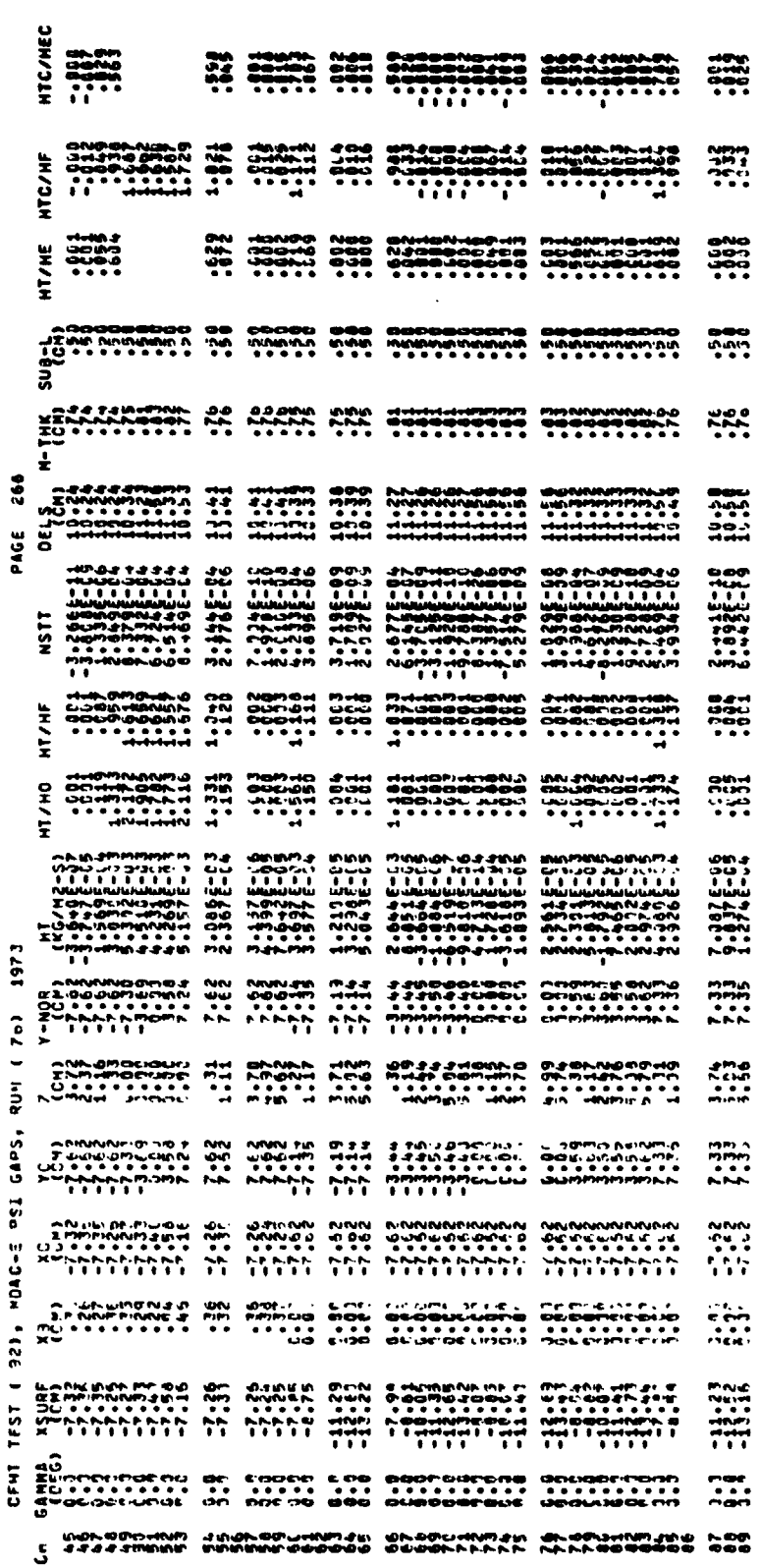
CP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	Y-NOR (CM)	Z (CM)	PT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/ME	HTC/HF	HTC/MEC
1	0.0	7.62	7.62	-7.62	-7.62	0.0	-6.731E-06	.001	.001	-5.554E-10	10.24	.74	.55	.001	-.002	-.002
2	0.0	7.62	7.62	-7.62	-7.62	2.54	-6.731E-06	.001	.001	-5.554E-10	10.24	.74	.55	.001	-.002	-.002
3	0.0	7.62	7.62	-7.62	-7.62	5.08	-1.216E-05	.002	.001	-1.004E-09	10.24	.74	.55	.001	-.002	-.002
4	0.0	7.62	7.62	-7.62	-7.62	7.62	-1.216E-05	.002	.001	-1.004E-09	10.24	.74	.55	.001	-.002	-.002
5	0.0	7.62	7.62	-7.62	-7.62	10.16	-1.216E-05	.002	.001	-1.004E-09	10.24	.74	.55	.001	-.002	-.002
6	0.0	7.62	7.62	-7.62	-7.62	12.7	-1.216E-05	.002	.001	-1.004E-09	10.24	.74	.55	.001	-.002	-.002
7	0.0	7.62	7.62	-7.62	-7.62	15.24	-1.216E-05	.002	.001	-1.004E-09	10.24	.74	.55	.001	-.002	-.002
8	0.0	7.62	7.62	-7.62	-7.62	17.78	-1.216E-05	.002	.001	-1.004E-09	10.24	.74	.55	.001	-.002	-.002
9	0.0	7.62	7.62	-7.62	-7.62	20.32	-1.216E-05	.002	.001	-1.004E-09	10.24	.74	.55	.001	-.002	-.002
10	0.0	7.62	7.62	-7.62	-7.62	22.86	-1.216E-05	.002	.001	-1.004E-09	10.24	.74	.55	.001	-.002	-.002
11	0.0	7.62	7.62	-7.62	-7.62	25.4	-1.216E-05	.002	.001	-1.004E-09	10.24	.74	.55	.001	-.002	-.002
1	0.0	7.62	7.62	-7.62	-7.62	0.0	-2.227E-06	.001	.001	-1.837E-10	10.24	.74	.55	.001	-.002	-.002
2	0.0	7.62	7.62	-7.62	-7.62	2.54	-2.227E-06	.001	.001	-1.837E-10	10.24	.74	.55	.001	-.002	-.002
3	0.0	7.62	7.62	-7.62	-7.62	5.08	-4.023E-06	.001	.001	-3.319E-10	10.24	.74	.55	.001	-.002	-.002
4	0.0	7.62	7.62	-7.62	-7.62	7.62	-4.023E-06	.001	.001	-3.319E-10	10.24	.74	.55	.001	-.002	-.002
5	0.0	7.62	7.62	-7.62	-7.62	10.16	-4.023E-06	.001	.001	-3.319E-10	10.24	.74	.55	.001	-.002	-.002
6	0.0	7.62	7.62	-7.62	-7.62	12.7	-4.023E-06	.001	.001	-3.319E-10	10.24	.74	.55	.001	-.002	-.002
7	0.0	7.62	7.62	-7.62	-7.62	15.24	-4.023E-06	.001	.001	-3.319E-10	10.24	.74	.55	.001	-.002	-.002
8	0.0	7.62	7.62	-7.62	-7.62	17.78	-4.023E-06	.001	.001	-3.319E-10	10.24	.74	.55	.001	-.002	-.002
9	0.0	7.62	7.62	-7.62	-7.62	20.32	-4.023E-06	.001	.001	-3.319E-10	10.24	.74	.55	.001	-.002	-.002
10	0.0	7.62	7.62	-7.62	-7.62	22.86	-4.023E-06	.001	.001	-3.319E-10	10.24	.74	.55	.001	-.002	-.002
11	0.0	7.62	7.62	-7.62	-7.62	25.4	-4.023E-06	.001	.001	-3.319E-10	10.24	.74	.55	.001	-.002	-.002
1	0.0	7.62	7.62	-7.62	-7.62	0.0	-2.967E-05	.006	.004	-2.447E-09	10.24	.74	.55	.004	-.008	-.008
2	0.0	7.62	7.62	-7.62	-7.62	2.54	-2.967E-05	.006	.004	-2.447E-09	10.24	.74	.55	.004	-.008	-.008
3	0.0	7.62	7.62	-7.62	-7.62	5.08	-5.361E-05	.011	.008	-4.422E-09	10.24	.74	.55	.008	-.015	-.015
4	0.0	7.62	7.62	-7.62	-7.62	7.62	-5.361E-05	.011	.008	-4.422E-09	10.24	.74	.55	.008	-.015	-.015
5	0.0	7.62	7.62	-7.62	-7.62	10.16	-5.361E-05	.011	.008	-4.422E-09	10.24	.74	.55	.008	-.015	-.015
6	0.0	7.62	7.62	-7.62	-7.62	12.7	-5.361E-05	.011	.008	-4.422E-09	10.24	.74	.55	.008	-.015	-.015
7	0.0	7.62	7.62	-7.62	-7.62	15.24	-5.361E-05	.011	.008	-4.422E-09	10.24	.74	.55	.008	-.015	-.015
8	0.0	7.62	7.62	-7.62	-7.62	17.78	-5.361E-05	.011	.008	-4.422E-09	10.24	.74	.55	.008	-.015	-.015
9	0.0	7.62	7.62	-7.62	-7.62	20.32	-5.361E-05	.011	.008	-4.422E-09	10.24	.74	.55	.008	-.015	-.015
10	0.0	7.62	7.62	-7.62	-7.62	22.86	-5.361E-05	.011	.008	-4.422E-09	10.24	.74	.55	.008	-.015	-.015
11	0.0	7.62	7.62	-7.62	-7.62	25.4	-5.361E-05	.011	.008	-4.422E-09	10.24	.74	.55	.008	-.015	-.015
1	0.0	7.62	7.62	-7.62	-7.62	0.0	-5.636E-05	.015	.011	-4.650E-09	10.24	.74	.55	.011	-.021	-.021
2	0.0	7.62	7.62	-7.62	-7.62	2.54	-5.636E-05	.015	.011	-4.650E-09	10.24	.74	.55	.011	-.021	-.021
3	0.0	7.62	7.62	-7.62	-7.62	5.08	-6.636E-05	.015	.011	-5.473E-09	10.24	.74	.55	.011	-.021	-.021
4	0.0	7.62	7.62	-7.62	-7.62	7.62	-6.636E-05	.015	.011	-5.473E-09	10.24	.74	.55	.011	-.021	-.021
5	0.0	7.62	7.62	-7.62	-7.62	10.16	-6.636E-05	.015	.011	-5.473E-09	10.24	.74	.55	.011	-.021	-.021
6	0.0	7.62	7.62	-7.62	-7.62	12.7	-6.636E-05	.015	.011	-5.473E-09	10.24	.74	.55	.011	-.021	-.021
7	0.0	7.62	7.62	-7.62	-7.62	15.24	-6.636E-05	.015	.011	-5.473E-09	10.24	.74	.55	.011	-.021	-.021
8	0.0	7.62	7.62	-7.62	-7.62	17.78	-6.636E-05	.015	.011	-5.473E-09	10.24	.74	.55	.011	-.021	-.021
9	0.0	7.62	7.62	-7.62	-7.62	20.32	-6.636E-05	.015	.011	-5.473E-09	10.24	.74	.55	.011	-.021	-.021
10	0.0	7.62	7.62	-7.62	-7.62	22.86	-6.636E-05	.015	.011	-5.473E-09	10.24	.74	.55	.011	-.021	-.021
11	0.0	7.62	7.62	-7.62	-7.62	25.4	-6.636E-05	.015	.011	-5.473E-09	10.24	.74	.55	.011	-.021	-.021
1	0.0	7.62	7.62	-7.62	-7.62	0.0	-6.636E-05	.015	.011	-5.473E-09	10.24	.74	.55	.011	-.021	-.021
2	0.0	7.62	7.62	-7.62	-7.62	2.54	-6.636E-05	.015	.011	-5.473E-09	10.24	.74	.55	.011	-.021	-.021
3	0.0	7.62	7.62	-7.62	-7.62	5.08	-7.636E-05	.017	.012	-6.296E-09	10.24	.74	.55	.012	-.024	-.024
4	0.0	7.62	7.62	-7.62	-7.62	7.62	-7.636E-05	.017	.012	-6.296E-09	10.24	.74	.55	.012	-.024	-.024
5	0.0	7.62	7.62	-7.62	-7.62	10.16	-7.636E-05	.017	.012	-6.296E-09	10.24	.74	.55	.012	-.024	-.024
6	0.0	7.62	7.62	-7.62	-7.62	12.7	-7.636E-05	.017	.012	-6.296E-09	10.24	.74	.55	.012	-.024	-.024
7	0.0	7.62	7.62	-7.62	-7.62	15.24	-7.636E-05	.017	.012	-6.296E-09	10.24	.74	.55	.012	-.024	-.024
8	0.0	7.62	7.62	-7.62	-7.62	17.78	-7.636E-05	.017	.012	-6.296E-09	10.24	.74	.55	.012	-.024	-.024
9	0.0	7.62	7.62	-7.62	-7.62	20.32	-7.636E-05	.017	.012	-6.296E-09	10.24	.74	.55	.012	-.024	-.024
10	0.0	7.62	7.62	-7.62	-7.62	22.86	-7.636E-05	.017	.012	-6.296E-09	10.24	.74	.55	.012	-.024	-.024
11	0.0	7.62	7.62	-7.62	-7.62	25.4	-7.636E-05	.017	.012	-6.296E-09	10.24	.74	.55	.012	-.024	-.024
1	0.0	7.62	7.62	-7.62	-7.62	0.0	-7.636E-05	.017	.012	-6.296E-09	10.24	.74	.55	.012	-.024	-.024
2	0.0	7.62	7.62	-7.62	-7.62	2.54	-7.636E-05	.017	.012	-6.296E-09	10.24	.74	.55	.012	-.024	-.024
3	0.0	7.62	7.62	-7.62	-7.62	5.08	-8.636E-05	.019	.014	-7.119E-09	10.24	.74	.55	.014	-.027	-.027
4	0.0	7.62	7.62	-7.62	-7.62	7.62	-8.636E-05	.019	.014	-7.119E-09	10.24	.74	.55	.014	-.027	-.027
5	0.0	7.62	7.62	-7.62	-7.62	10.16	-8.636E-05	.019	.014	-7.119E-09	10.24	.74	.55	.014	-.027	-.027
6	0.0	7.62	7.62	-7.62	-7.62	12.7	-8.636E-05	.019	.014	-7.119E-09	10.24	.74	.55	.014	-.027	-.027
7	0.0	7.62	7.62	-7.62	-7.62	15.24	-8.636E-05	.019	.014	-7.119E-09	10.24	.74	.55	.014	-.027	-.027
8	0.0	7.62	7.62	-7.62	-7.62	17.78	-8.636E-05	.019	.014	-7.119E-09	10.24	.74	.55	.014	-.027	-.027
9	0.0	7.62	7.62	-7.62	-7.62	20.32	-8.636E-05	.019	.014	-7.119E-09	10.24	.74	.55	.014	-.027	-.027
10	0.0	7.62	7.62	-7.62	-7.62	22.86	-8.636E-05	.019	.014	-7.119E-09	10.24	.74	.55	.014	-.027	-.027
11	0.0	7.62	7.62	-7.62	-7.62	25.4	-8.636E-05	.019	.014	-7.119E-09	10.24	.74	.55	.014	-.027	-.027

TAW/TT =0.295 FOR HT/HO
XSURF = SURFACE DISTANCE (FLOW DIRECTION)
HT/HF, GAP HEATING RATIOED TO EDGE AT TILE (GAP CORRECTED)
HTC/MEC, CONDUCTION CORRECTED HT/ME

TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER
HT/HO RATIOED TO FLAT PLATE

IT = 1.022E+03(K)
PI = 5.136E+03(N/M2)
PT = 4.772E+01(K)
PTI = 9.795E+01(N/M2)
(RHO V)1 = 1.125E+00(KG/M2-S)
GAP = .129 (CM)
CONF = IN-L

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MACH = 10.290 TT = 1.002E+03(K)
RX E06 = 3.377E-11 PT = 5.156E+06(N/M2)
RL E06 = 8.268E-12 TI = 4.719E+01(K)
RE/METER = 3.258E+06 PI = 9.739E+01(N/M2)
HO = 2.619E+00(W/M2-K) (RHO V)1 = 1.325E+01(KG/M2-S)
TW = 298.1 (K) GAP = .127 (CM)
STEP = .254(CM) CONF =IN-L

TAW/TT =0.995 FOR HT/HO TILE COORDINATES(GAMMA=0.0)
XSURF =SURFACE DISTANCE X3 = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 OR 90 DEG.) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	7.5	0.03	7.62	0.03	-7.62	3.76	-7.55	-9.348E-06	.001	.031	-5.347E-10	10.26	.75	.50	.001	-.003	-.003
10	7.5	[illegible]	7.55	[illegible]	-7.65	3.03	-7.55	3.9[illegible]E-06	.005	.004	1.305E-09	10.26	.75	.50	.003	.001	.001
11	7.5	[illegible]	7.55	[illegible]	-7.62	3.74	-7.55	[illegible]E-05	.006	.005	6.875E-09	10.26	.75	.50	.004	.004	.005
12	7.5	[illegible]	7.62	[illegible]	-7.62	2.36	-7.55	-2.897E-05	.001	.001	-2.482E-09	10.26	.75	.50	.001	-.009	-.008
13	7.5	[illegible]	7.62	[illegible]	-7.62	1.14	-7.55	3.332E-05	.054	.043	1.292E-07	10.26	.75	.50	.036	.018	.019
14	7.5	[illegible]	7.62	[illegible]	-7.62	.33	-7.55	1.062E-03	.622	.603	1.112E-04	10.26	.75	.50	.549	.584	.524
15	7.5	0.00	7.62	0.00	-7.29	0.00	-7.23	3.538E-03	1.499	1.117	3.871E-04	10.37	.75	.50		1.116	
16	7.5	0.03	7.62	0.03	-3.63	0.00	-3.61	3.055E-03	1.290	1.125	3.368E-04	11.24	.81	.50		1.128	
17	7.5	[illegible]	7.62	[illegible]	[illegible]	0.00	[illegible]	2.922E-03	1.243	1.132	3.239E-04	11.56	.83	.50		1.126	
18	7.5	[illegible]	7.62	[illegible]	[illegible]	0.00	3.51	2.915E-03	1.260	1.107	3.162E-04	11.34	.82	.50		1.105	
19	7.5	0.03	7.62	0.00	7.27	0.00	7.23	2.729E-03	1.194	.947	2.532E-04	10.54	.77	.50		.916	
20	7.5	[illegible]	7.62	[illegible]	7.62	.41	7.29	8.286E-06	.206	.003	2.238E-09	10.43	.76	.50	.063	.003	.003
21	7.5	[illegible]	7.62	[illegible]	7.62	1.17	7.55	1.098E-04	.168	.353	5.774E-07	10.43	.76	.50	.057	.036	.040
22	7.5	[illegible]	7.62	[illegible]	7.62	2.39	7.55	-2.988E-05	.004	.004	-1.030E-08	10.43	.76	.50	.004	-.010	-.011
23	7.5	[illegible]	7.62	[illegible]	7.62	3.78	7.55	1.932E-05	.006	.005	9.034E-09	10.43	.76	.50	.005	.006	.007
24	7.5	0.03	7.62	[illegible]	7.52	5.07	7.55	3.020E-05	.003	.072	6.032E-09	10.43	.76	.50	.002	.010	.011
25	7.5	0.07	7.62	[illegible]	7.62	5.73	7.55	4.581E-05	.005	.074	1.824E-08	10.43	.76	.50	.004	.016	.017
26	7.5	-3.76	3.86	-3.76	-7.62	3.70	-8.35	7.264E-05	.008	.008	2.893E-09	10.09	.74	.50	.008	.022	.028
27	7.5	-3.83	3.92	-3.85	-7.62	3.34	-8.05	6.603E-05	.007	.005	3.296E-08	10.09	.73	.50	.005	.020	.018
28																	
29																	
30	7.5	-3.83	3.79	-3.83	-7.62	1.16	-8.05	1.353E-05	.243	.038	5.808E-08	10.49	.73	.50	.028	.006	.065
31	7.5	-3.87	3.75	-3.87	-7.62	.33	-9.06	2.034E-03	.854	.638	1.194E-04	10.69	.73	.50	.564	.604	.558
32	7.5	-3.79	3.83	-3.79	-7.24	0.00	-7.67	3.643E-03	1.315	1.164	3.938E-04	10.22	.74	.50		1.124	
33	7.5	-3.92	3.70	-3.92	-3.71	0.00	-4.19	3.375E-03	1.426	1.213	4.032E-04	11.15	.83	.50		1.222	
34	7.5	-3.95	3.67	-3.35	0.00	0.00	-.52	3.249E-03	1.373	1.248	3.961E-04	11.55	.83	.50		1.246	
35	7.5	-3.89	3.73	-3.89	3.59	0.00	3.05	3.347E-03	1.413	1.251	4.201E-04	11.39	.82	.50		1.223	
36	7.5	-3.74	3.88	-3.74	7.28	0.00	6.73	3.232E-03	1.320	1.072	3.363E-04	10.66	.78	.50		1.094	
37	7.5	-3.79	3.83	-3.79	7.62	.37	7.06	1.332E-03	.592	.472	6.153E-05	10.54	.77	.50	.446	.449	.411
38	7.5	-3.74	3.88	-3.74	7.62	1.15	7.07	1.629E-05	.053	.042	6.735E-08	10.58	.77	.50	.040	-.005	-.005
39	7.5	-3.80	3.82	-3.80	7.62	2.35	7.06	-2.942E-05	.005	.004	-1.118E-08	10.58	.77	.50	.004	-.010	-.005
40	7.5	-3.84	3.82	-3.84	7.62	3.62	7.06	1.326E-05	.002	.002	1.118E-09	10.58	.77	.50	.002	.004	.004
41	7.5	-3.67	3.93	-3.67	7.62	5.04	7.08	8.803E-05	.002	.031	8.515E-09	10.58	.77	.50	.001	.023	.021
42																	
43	7.5	-7.35	.27	-7.35	-7.62	5.78	-6.81	9.784E-07	.002	.002	1.557E-10	9.96	.72	.50	.001	.008	.001
44	7.5	-7.33	.29	-7.33	-7.62	4.91	-3.51	6.721E-06	.004	.003	2.036E-09	9.92	.72	.50	.002	.002	.001

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Cm	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
45	7.5	-7.26	1.36	-7.62	-7.62	1.11	-8.28	2.64E-04	.168	.136	3.39E-04	10.68	.73	.50	.699	1.823	.684
44	7.5	-7.24	1.36	-7.62	-7.62	1.17	-8.28	2.94E-04	.125	.088	3.54E-06	10.61	.73	.50	.661	.868	.859
43	7.5	-7.24	1.36	-7.62	-7.62	1.22	-8.28	3.24E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
42	7.5	-7.24	1.36	-7.62	-7.62	1.27	-8.28	3.54E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
41	7.5	-7.25	1.36	-7.62	-7.62	1.32	-8.28	3.84E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
40	7.5	-7.25	1.36	-7.62	-7.62	1.37	-8.28	4.14E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
39	7.5	-7.25	1.36	-7.62	-7.62	1.42	-8.28	4.44E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
38	7.5	-7.25	1.36	-7.62	-7.62	1.47	-8.28	4.74E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
37	7.5	-7.25	1.36	-7.62	-7.62	1.52	-8.28	5.04E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
36	7.5	-7.25	1.36	-7.62	-7.62	1.57	-8.28	5.34E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
35	7.5	-7.25	1.36	-7.62	-7.62	1.62	-8.28	5.64E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
34	7.5	-7.25	1.36	-7.62	-7.62	1.67	-8.28	5.94E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
33	7.5	-7.25	1.36	-7.62	-7.62	1.72	-8.28	6.24E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
32	7.5	-7.25	1.36	-7.62	-7.62	1.77	-8.28	6.54E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
31	7.5	-7.25	1.36	-7.62	-7.62	1.82	-8.28	6.84E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
30	7.5	-7.25	1.36	-7.62	-7.62	1.87	-8.28	7.14E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
29	7.5	-7.25	1.36	-7.62	-7.62	1.92	-8.28	7.44E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
28	7.5	-7.25	1.36	-7.62	-7.62	1.97	-8.28	7.74E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
27	7.5	-7.25	1.36	-7.62	-7.62	2.02	-8.28	8.04E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
26	7.5	-7.25	1.36	-7.62	-7.62	2.07	-8.28	8.34E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
25	7.5	-7.25	1.36	-7.62	-7.62	2.12	-8.28	8.64E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
24	7.5	-7.25	1.36	-7.62	-7.62	2.17	-8.28	8.94E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
23	7.5	-7.25	1.36	-7.62	-7.62	2.22	-8.28	9.24E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
22	7.5	-7.25	1.36	-7.62	-7.62	2.27	-8.28	9.54E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
21	7.5	-7.25	1.36	-7.62	-7.62	2.32	-8.28	9.84E-04	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
20	7.5	-7.25	1.36	-7.62	-7.62	2.37	-8.28	1.01E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
19	7.5	-7.25	1.36	-7.62	-7.62	2.42	-8.28	1.04E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
18	7.5	-7.25	1.36	-7.62	-7.62	2.47	-8.28	1.07E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
17	7.5	-7.25	1.36	-7.62	-7.62	2.52	-8.28	1.10E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
16	7.5	-7.25	1.36	-7.62	-7.62	2.57	-8.28	1.13E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
15	7.5	-7.25	1.36	-7.62	-7.62	2.62	-8.28	1.16E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
14	7.5	-7.25	1.36	-7.62	-7.62	2.67	-8.28	1.19E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
13	7.5	-7.25	1.36	-7.62	-7.62	2.72	-8.28	1.22E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
12	7.5	-7.25	1.36	-7.62	-7.62	2.77	-8.28	1.25E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
11	7.5	-7.25	1.36	-7.62	-7.62	2.82	-8.28	1.28E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
10	7.5	-7.25	1.36	-7.62	-7.62	2.87	-8.28	1.31E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
9	7.5	-7.25	1.36	-7.62	-7.62	2.92	-8.28	1.34E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
8	7.5	-7.25	1.36	-7.62	-7.62	2.97	-8.28	1.37E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
7	7.5	-7.25	1.36	-7.62	-7.62	3.02	-8.28	1.40E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
6	7.5	-7.25	1.36	-7.62	-7.62	3.07	-8.28	1.43E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
5	7.5	-7.25	1.36	-7.62	-7.62	3.12	-8.28	1.46E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
4	7.5	-7.25	1.36	-7.62	-7.62	3.17	-8.28	1.49E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
3	7.5	-7.25	1.36	-7.62	-7.62	3.22	-8.28	1.52E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
2	7.5	-7.25	1.36	-7.62	-7.62	3.27	-8.28	1.55E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813
1	7.5	-7.25	1.36	-7.62	-7.62	3.32	-8.28	1.58E-03	.138	.088	2.53E-06	10.71	.73	.50	.662	.812	.813

3.4-154

CFMT TEST (07), MDAC-E RSI GAPS, RUN (78) 1973

MACH = 15.2900E-01 TT = 1.0302E+03(K)
RN /M = 15.3069E-01 PT = 5.4E35E+06(N/M2)
RN /FT = 16.2722E-02 T1 = 4.7722E+01(K)
RE/METER = 16.2652E+06 P1 = 5.6033E+01(N/M2)
MO = 12.6196E+00 (RHO V)1 = 11.9226E+01(KG/M2-S)
TW = 298.1 (K) GAP = .127 (CM)
STEP = .254(CM) CONF =IN-L

TAW/TT =0.995 FOR HT/HO
XSURF =SURFACE DISTANCE
(FLOW DIRECTION)

TILE COORDINATES(GAMMA=0.(
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HF, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	Y (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
2	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
3	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
4	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
5	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
6	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
7	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
8	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
9	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
10	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
11	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
12	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
13	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
14	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
15	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
16	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
17	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
18	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
19	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
20	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
21	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
22	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
23	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818
24	15.0	0.00	7.62	1.14	-7.36	7.36	4.877E-05	.654	.848	1.618E-07	10.32	.75	.50	.833	.313	.818

CFMT TEST (92), MDAC-E PSI GAPS, RUN (79) 1973 PAGE 273

MACH = 10.292 TI = 1.023E+03 (K)
RX EE06 = 3.10E-01 PI = 5.112E+03 (N/M2)
RE/METER = 4.20E+06 T1 = 9.732E+02 (K)
MO = 3.51E+00 P1 = 9.065E+01 (KG/M2)
TM = 298.1 (K) (RHO V)1 = 1.026E+01 (KG/M2-S)
STEP = .254(C4) GAP = 1.127 (CM,
CONF =IN-L

TAW/TT =0.895 FCR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FROM STAG.PNT.) XC = Y-COOR. FROM TILE CENTER
HT/HE, GAP HEATING RATIO TO EDGE AT TILE TOP YC = Y-COOR. FROM TILE CENTER
HTC/HEC, CONDUCTION CORRECTED HT/HE SPECIFIC HEAT CORRECTED
CONDUCTION CORRECTED HT/HE TO FLAT PLATE

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	Z (CM)	Y-NOR (CM)	HI (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-TMK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	90.0	0.00	7.62	-7.62	1.14	-6.60	6.25E-05	.065	.058	3.068E-07	10.56	.77	.50	.635	.028	.014
2	90.0	0.00	7.62	-7.62	.33	-6.60	2.65E-03	.119	.061	2.212E-04	10.56	.77	.50	.601	.855	.586
3	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
4	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
5	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
6	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
7	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
8	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
9	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
10	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
11	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
12	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
13	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
14	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
15	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
16	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
17	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
18	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
19	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
20	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
21	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
22	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
23	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
24	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
25	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
26	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
27	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
28	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
29	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
30	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
31	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
32	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
33	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
34	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
35	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
36	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
37	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
38	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
39	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
40	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
41	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
42	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
43	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
44	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
45	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
46	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
47	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
48	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
49	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
50	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
51	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
52	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
53	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
54	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
55	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
56	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
57	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
58	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
59	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
60	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
61	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
62	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
63	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
64	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
65	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
66	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
67	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
68	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
69	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
70	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
71	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
72	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
73	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
74	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
75	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
76	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
77	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
78	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
79	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
80	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
81	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
82	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
83	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
84	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
85	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
86	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
87	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
88	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
89	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
90	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
91	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
92	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
93	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
94	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
95	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
96	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
97	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
98	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
99	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
100	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
101	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
102	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
103	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
104	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
105	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
106	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
107	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
108	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
109	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
110	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
111	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
112	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
113	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
114	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
115	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
116	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
117	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
118	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
119	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
120	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
121	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
122	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
123	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
124	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
125	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
126	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
127	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
128	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
129	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
130	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
131	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
132	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
133	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
134	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
135	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
136	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	
137	90.0	0.00	7.62	-7.62	.00	-6.60	2.29E-03	.098	.052	1.906E-04	10.79	.78	.50		.784	

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Cm	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	T (CM)	Y-NOR (CM)	MT (KG/M2-S)	HT/HO	HT/HF	NSTT	OELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC,HEC
0.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
4.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
8.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
12.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
16.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
20.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
24.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
28.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
32.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
36.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
40.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
44.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
48.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
52.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
56.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
60.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
64.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
68.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
72.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
76.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
80.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
84.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
88.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
92.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
96.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
100.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
104.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
108.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
112.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
116.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
120.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
124.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
128.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
132.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
136.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
140.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
144.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
148.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
152.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
156.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
160.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
164.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
168.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
172.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
176.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845
180.	0.0	-7.25	-7.62	-7.62	.72	-10.00	3.38E-03	2.306	.836	1.28E-06	9.25	.68	.30	.646	.899	.845

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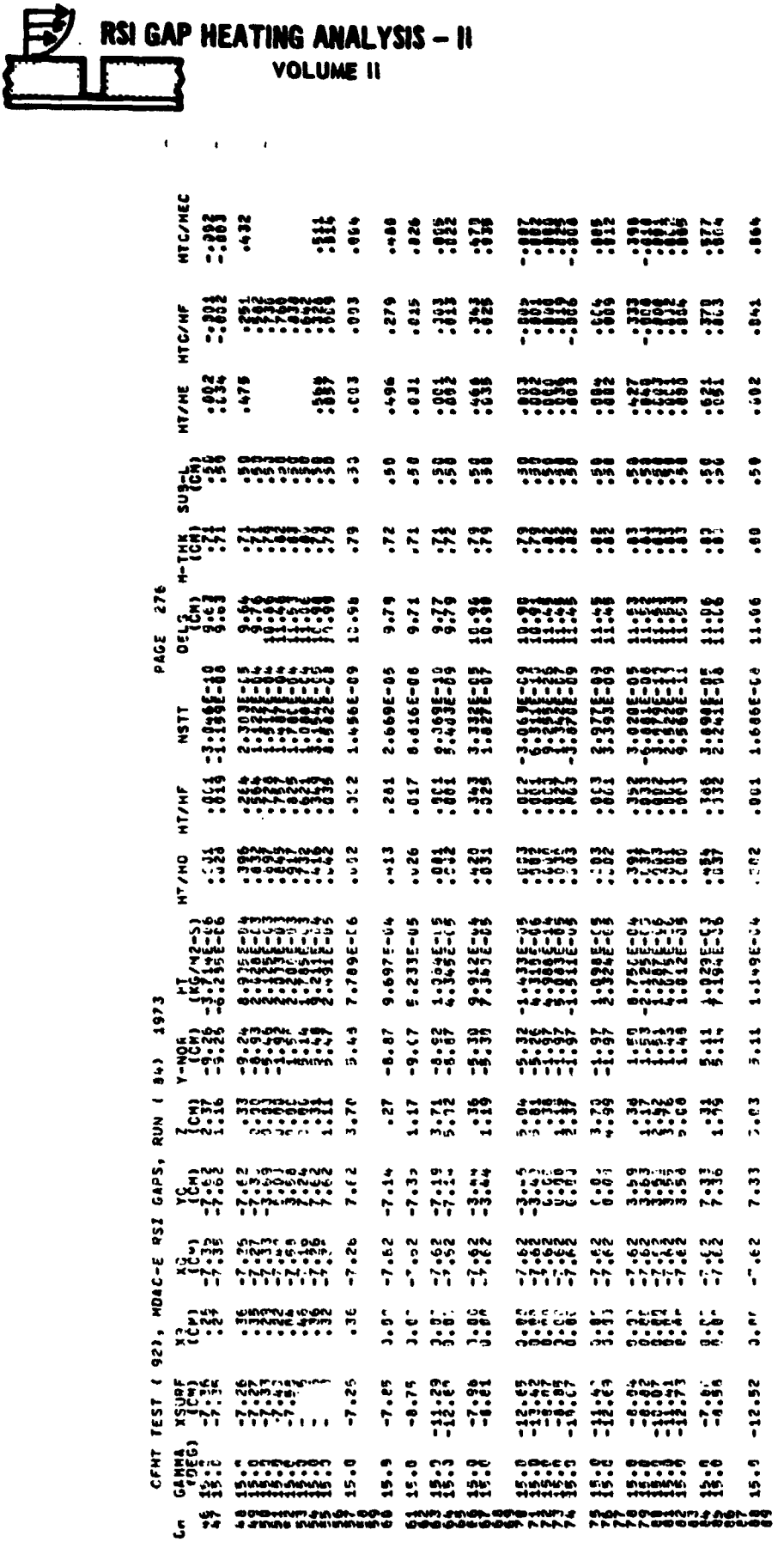
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MACH = 15.291 IT = 1.036E+03(K)
RX EDG = 1.980E+05 PI = 5.128E+06(N/M2)
RE EDG = 8.225E-02 T1 = 4.739E+01(K)
RE/METER = 2.241E+06 P1 = 9.867E+01(N/M2)
HO = 2.619E+07(W/M2-K) (RHO V)1 = 1.025E+01(KG/M2-S)
TW = 1.489E+03 (K) GAP = .127 (CM)
STEP = 1.000(CM) CONF = IN-L

IAN/TT =0.895 FOR HT/HO TILE COORDINATES(GAMMA=E.C
XSURF =SURFACE DIST. CM XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0) OR 90 (E) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	15.9	9.37	7.62	1.75	-7.62	9.03	-7.36	1.215E-04	.681	.901	7.017E-09	10.32	.75	.50	.881	.838	.849
2	15.9	3.03	7.62	0.19	-7.62	1.14	-7.36	-2.432E-05	.(25	.019	-4.595E-08	10.32	.75	.50	.825	-.818	-.819
3	15.8	0.001	7.62	3.38	-7.62	.33	-7.36	1.063E-04	.725	.368	7.042E-05	10.32	.75	.50	.468	.428	.426
4	15.8	0.001	7.62	3.03	-7.29	0.08	-7.09	2.456E-03	1.537	.772	1.858E-04	10.32	.76	.50		1.781	
5	15.8	0.01	7.62	3.03	-3.63	1.80	-3.91	2.896E-03	1.224	1.069	3.037E-04	11.26	.81	.50		1.071	
6	15.8	0.01	7.62	3.03	0.03	3.63	3.91	2.736E-03	1.161	1.057	2.836E-04	11.56	.83	.50		1.054	
7	15.8	0.00	7.62	3.03	3.54	7.00	3.62	2.720E-03	1.161	1.022	2.725E-04	11.35	.82	.50		1.114	
8	15.8	0.03	7.62	3.29	7.27	0.08	7.62	2.289E-03	.983	.784	1.768E-04	10.59	.77	.50		.774	
9	15.8	0.03	7.62	3.03	7.62	1.17	7.36	8.891E-05	.036	.028	2.241E-07	10.49	.76	.50	.036	.027	.035
10	15.8	3.89	7.62	3.00	7.62	5.97	7.36	-8.771E-06	.001	.001	-7.469E-10	10.49	.76	.50	.001	-.063	-.064
11	15.8	-3.76	3.86	-3.76	-7.62	5.70	-8.33	-1.225E-04	.001	.001	-8.025E-09	9.99	.73	.50	.001	-.036	-.047
12	15.8	-3.84	3.79	-3.83	-7.62	1.16	-8.35	4.755E-05	.026	.018	8.473E-08	9.98	.73	.50	.024	.014	.010
13	15.8	-3.84	3.75	-3.87	-7.62	.33	-8.34	1.251E-04	.597	.369	4.827E-05	9.98	.73	.50	.493	.371	.476
14	15.8	-3.79	3.83	-3.79	-7.29	0.08	-7.09	2.972E-03	1.669	.768	1.936E-04	10.42	.74	.50		.748	
15	15.8	-3.92	3.77	-3.92	-3.91	1.80	-4.61	2.661E-03	1.209	1.017	2.852E-04	11.06	.80	.50		1.019	
16	15.8	-3.95	3.67	-3.95	0.00	3.80	-1.82	2.738E-03	1.146	1.069	2.933E-04	11.52	.83	.50		1.069	
17	15.8	-3.94	3.69	-3.94	3.54	7.00	1.80	2.546E-03	1.238	1.008	3.138E-04	11.46	.82	.50		1.122	
18	15.8	-3.94	3.69	-3.94	7.26	0.08	6.06	2.349E-03	1.011	.898	1.906E-04	10.88	.78	.50		.681	
19	15.8	-3.79	3.83	-3.79	7.62	.37	6.36	9.188E-04	.413	.328	3.443E-05	10.77	.78	.50	.439	.307	-.373
20	15.8	-3.94	3.69	-3.94	7.62	1.15	6.39	-2.537E-05	.029	.023	-5.783E-08	10.76	.78	.50	.032	-.018	-.019
21	15.8	-3.94	3.69	-3.94	7.62	3.52	6.38	4.345E-04	.002	.001	5.552E-10	10.77	.78	.50	.001	.001	.001
22	15.8	-3.94	3.69	-3.94	7.62	3.52	6.38	9.959E-05	.001	.001	6.381E-09	10.77	.78	.50	.001	.036	.040
23	15.8	-7.32	.31	-7.32	-7.62	3.72	-9.25	7.192E-05	.002	.001	8.970E-09	9.63	.71	.50	.002	.020	.035



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CFHT TEST (92), PDAC-E RSI GAPS, RUN (85) 1973 PAGE 277

MACH = 10.290
RX E06 = 3.290E-01
RL E06 = 8.220E-02
RE/METER = 3.239E+06
HO = 2.614E+00 (W/M2-K)
TW = 299.7 (K)
STEP = 0.000 (CM)

TT = 1.035E+03 (K)
PI = 5.155E+06 (N/M2)
TI = 4.737E+01 (K)
PL = 9.807E+01 (N/M2)
(RHO V)1 = 1.125E+01 (KG/M2-S)
GAP = .127 (CM)
CONF = IN-L

TAW/TT = 0.895 FOR HT/HO
XSURF = SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG.)

TILE COORDINATES (GAMMA=0.0)
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9																	
10	30.0	0.00	7.62	0.00	-7.62	5.93	-6.60	2.999E-05	.000	.008	7.293E-10	10.56	.77	.50	.000	.010	.012
11																	
12																	
13	30.0	0.00	7.62	0.00	-7.62	1.16	-6.60	-3.928E-06	.034	.026	-1.014E-10	10.56	.77	.50	.035	-.001	-.002
14	30.0	0.00	7.62	0.00	-7.62	.33	-6.63	1.855E-03	.469	.361	3.732E-05	10.56	.77	.50	.474	.344	.440
15	30.0	0.00	7.52	0.00	-7.29	1.00	-6.32	2.365E-03	.909	.772	1.790E-04	10.64	.77	.50		.781	
16	30.0	0.00	7.52	0.00	-3.63	3.00	-3.15	2.914E-03	1.220	1.082	3.091E-04	11.31	.81	.50		1.086	
17	30.0	0.00	7.62	0.00	0.00	3.00	0.00	2.730E-03	1.156	1.052	2.814E-04	11.56	.83	.50		1.082	
18	30.0	0.00	7.62	0.00	3.54	3.00	3.07	2.679E-03	1.142	1.011	2.684E-04	11.39	.82	.50		1.004	
19	30.0	0.00	7.62	0.00	7.27	1.00	6.29	2.369E-03	.882	.723	1.466E-04	10.79	.78	.50		.718	
20																	
21	30.0	0.60	7.62	0.00	7.62	1.17	6.60	6.867E-05	.049	.040	2.660E-07	10.71	.78	.50	.055	.024	.033
22																	
23																	
24	30.0	0.00	7.62	0.00	7.62	5.97	6.63	2.783E-05	.000	.000	1.345E-10	10.71	.78	.50	.060	.010	.013
25																	
26	30.0	-3.76	3.86	-3.76	-7.62	5.78	-6.40	5.695E-05	.002	.001	7.261E-09	9.93	.72	.50	.602	.017	.022
27																	
28																	
29																	
30	30.0	-3.83	3.79	-3.83	-7.62	1.16	-6.51	-3.416E-06	.026	.018	-5.952E-09	9.92	.72	.50	.024	-.001	-.001
31	30.0	-3.87	3.75	-3.87	-7.62	.33	-6.53	1.201E-03	.588	.352	4.145E-05	9.91	.72	.50	.483	.352	.464
32	30.0	-3.79	3.83	-3.79	-7.24	1.00	-6.17	2.332E-03	1.052	.745	1.849E-04	10.05	.73	.50		.759	
33	30.0	-3.92	3.71	-3.92	-3.71	3.00	-3.17	2.645E-03	1.202	.989	2.738E-04	10.93	.79	.50		.996	
34	30.0	-3.93	3.67	-3.95	0.00	3.00	-1.90	2.811E-03	1.188	1.065	2.935E-04	11.45	.82	.50		1.067	
35	30.0	-3.89	3.73	-3.89	3.53	3.00	1.17	3.022E-03	1.274	1.149	3.404E-04	11.54	.83	.50		1.154	
36	30.0	-3.74	3.88	-3.74	7.28	1.00	4.43	2.392E-03	.998	.856	2.003E-04	11.19	.81	.50		.874	
37	30.0	-3.73	3.83	-3.79	7.62	.37	4.72	9.366E-04	.412	.353	3.137E-05	11.14	.80	.50	.416	.329	.377
38	30.0	-3.74	3.85	-3.74	7.62	1.15	4.73	-2.266E-05	.034	.029	-6.550E-08	11.14	.83	.53	.035	-.008	-.009
39	30.0	-3.83	3.82	-3.90	7.62	2.35	4.73	3.118E-06	.004	.003	1.044E-09	11.14	.83	.50	.004	.001	.001
40	30.0	-3.83	3.82	-3.83	7.62	3.62	4.70	9.838E-05	.001	.001	5.867E-09	11.14	.83	.50	.001	.036	.041
41																	
42																	
43																	
44																	

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M	GAMMA (DEG)	XSUPF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/MEC
45	30.0	-12.52	0.0	-7.62	7.33	3.73	2.54	1.193E-05	.704	.803	3.629E-09	11.45	.82	.50	.865	.007	.886
44	30.0	-12.43	0.0	-7.62	7.33	3.58	2.56	1.180E-05	.696	.798	3.598E-09	11.43	.82	.50	.864	.006	.882
43	30.0	-12.33	0.0	-7.62	7.33	3.43	2.56	1.167E-05	.688	.793	3.567E-09	11.41	.82	.50	.863	.006	.878
42	30.0	-12.24	0.0	-7.62	7.33	3.28	2.56	1.154E-05	.680	.788	3.536E-09	11.41	.82	.50	.862	.006	.874
41	30.0	-12.14	0.0	-7.62	7.33	3.13	2.56	1.141E-05	.672	.783	3.505E-09	11.40	.82	.50	.861	.006	.870
40	30.0	-12.05	0.0	-7.62	7.33	2.98	2.56	1.128E-05	.664	.778	3.474E-09	11.40	.82	.50	.860	.006	.866
39	30.0	-11.95	0.0	-7.62	7.33	2.83	2.56	1.115E-05	.656	.773	3.443E-09	11.40	.82	.50	.859	.006	.862
38	30.0	-11.86	0.0	-7.62	7.33	2.68	2.56	1.102E-05	.648	.768	3.412E-09	11.40	.82	.50	.858	.006	.858
37	30.0	-11.76	0.0	-7.62	7.33	2.53	2.56	1.089E-05	.640	.763	3.381E-09	11.40	.82	.50	.857	.006	.854
36	30.0	-11.67	0.0	-7.62	7.33	2.38	2.56	1.076E-05	.632	.758	3.350E-09	11.40	.82	.50	.856	.006	.850
35	30.0	-11.57	0.0	-7.62	7.33	2.23	2.56	1.063E-05	.624	.753	3.319E-09	11.40	.82	.50	.855	.006	.846
34	30.0	-11.48	0.0	-7.62	7.33	2.08	2.56	1.050E-05	.616	.748	3.288E-09	11.40	.82	.50	.854	.006	.842
33	30.0	-11.38	0.0	-7.62	7.33	1.93	2.56	1.037E-05	.608	.743	3.257E-09	11.40	.82	.50	.853	.006	.838
32	30.0	-11.29	0.0	-7.62	7.33	1.78	2.56	1.024E-05	.600	.738	3.226E-09	11.40	.82	.50	.852	.006	.834
31	30.0	-11.19	0.0	-7.62	7.33	1.63	2.56	1.011E-05	.592	.733	3.195E-09	11.40	.82	.50	.851	.006	.830
30	30.0	-11.10	0.0	-7.62	7.33	1.48	2.56	9.980E-06	.584	.728	3.164E-09	11.40	.82	.50	.850	.006	.826
29	30.0	-11.00	0.0	-7.62	7.33	1.33	2.56	9.851E-06	.577	.723	3.133E-09	11.40	.82	.50	.849	.006	.822
28	30.0	-10.91	0.0	-7.62	7.33	1.18	2.56	9.722E-06	.569	.718	3.102E-09	11.40	.82	.50	.848	.006	.818
27	30.0	-10.81	0.0	-7.62	7.33	1.03	2.56	9.593E-06	.561	.713	3.071E-09	11.40	.82	.50	.847	.006	.814
26	30.0	-10.72	0.0	-7.62	7.33	.88	2.56	9.464E-06	.553	.708	3.040E-09	11.40	.82	.50	.846	.006	.810
25	30.0	-10.62	0.0	-7.62	7.33	.73	2.56	9.335E-06	.545	.703	3.009E-09	11.40	.82	.50	.845	.006	.806
24	30.0	-10.53	0.0	-7.62	7.33	.58	2.56	9.206E-06	.537	.698	2.978E-09	11.40	.82	.50	.844	.006	.802
23	30.0	-10.43	0.0	-7.62	7.33	.43	2.56	9.077E-06	.529	.693	2.947E-09	11.40	.82	.50	.843	.006	.798
22	30.0	-10.34	0.0	-7.62	7.33	.28	2.56	8.948E-06	.521	.688	2.916E-09	11.40	.82	.50	.842	.006	.794
21	30.0	-10.24	0.0	-7.62	7.33	.13	2.56	8.819E-06	.513	.683	2.885E-09	11.40	.82	.50	.841	.006	.790
20	30.0	-10.15	0.0	-7.62	7.33	-.02	2.56	8.690E-06	.505	.678	2.854E-09	11.40	.82	.50	.840	.006	.786
19	30.0	-10.05	0.0	-7.62	7.33	-.17	2.56	8.561E-06	.497	.673	2.823E-09	11.40	.82	.50	.839	.006	.782
18	30.0	-9.96	0.0	-7.62	7.33	-.32	2.56	8.432E-06	.489	.668	2.792E-09	11.40	.82	.50	.838	.006	.778
17	30.0	-9.86	0.0	-7.62	7.33	-.47	2.56	8.303E-06	.481	.663	2.761E-09	11.40	.82	.50	.837	.006	.774
16	30.0	-9.77	0.0	-7.62	7.33	-.62	2.56	8.174E-06	.473	.658	2.730E-09	11.40	.82	.50	.836	.006	.770
15	30.0	-9.67	0.0	-7.62	7.33	-.77	2.56	8.045E-06	.465	.653	2.699E-09	11.40	.82	.50	.835	.006	.766
14	30.0	-9.58	0.0	-7.62	7.33	-.92	2.56	7.916E-06	.457	.648	2.668E-09	11.40	.82	.50	.834	.006	.762
13	30.0	-9.48	0.0	-7.62	7.33	-1.07	2.56	7.787E-06	.449	.643	2.637E-09	11.40	.82	.50	.833	.006	.758
12	30.0	-9.39	0.0	-7.62	7.33	-1.22	2.56	7.658E-06	.441	.638	2.606E-09	11.40	.82	.50	.832	.006	.754
11	30.0	-9.29	0.0	-7.62	7.33	-1.37	2.56	7.529E-06	.433	.633	2.575E-09	11.40	.82	.50	.831	.006	.750
10	30.0	-9.20	0.0	-7.62	7.33	-1.52	2.56	7.400E-06	.425	.628	2.544E-09	11.40	.82	.50	.830	.006	.746
9	30.0	-9.10	0.0	-7.62	7.33	-1.67	2.56	7.271E-06	.417	.623	2.513E-09	11.40	.82	.50	.829	.006	.742
8	30.0	-9.01	0.0	-7.62	7.33	-1.82	2.56	7.142E-06	.409	.618	2.482E-09	11.40	.82	.50	.828	.006	.738
7	30.0	-8.91	0.0	-7.62	7.33	-1.97	2.56	7.013E-06	.401	.613	2.451E-09	11.40	.82	.50	.827	.006	.734
6	30.0	-8.82	0.0	-7.62	7.33	-2.12	2.56	6.884E-06	.393	.608	2.420E-09	11.40	.82	.50	.826	.006	.730
5	30.0	-8.72	0.0	-7.62	7.33	-2.27	2.56	6.755E-06	.385	.603	2.389E-09	11.40	.82	.50	.825	.006	.726
4	30.0	-8.63	0.0	-7.62	7.33	-2.42	2.56	6.626E-06	.377	.598	2.358E-09	11.40	.82	.50	.824	.006	.722
3	30.0	-8.53	0.0	-7.62	7.33	-2.57	2.56	6.497E-06	.369	.593	2.327E-09	11.40	.82	.50	.823	.006	.718
2	30.0	-8.44	0.0	-7.62	7.33	-2.72	2.56	6.368E-06	.361	.588	2.296E-09	11.40	.82	.50	.822	.006	.714
1	30.0	-8.34	0.0	-7.62	7.33	-2.87	2.56	6.239E-06	.353	.583	2.265E-09	11.40	.82	.50	.821	.006	.710

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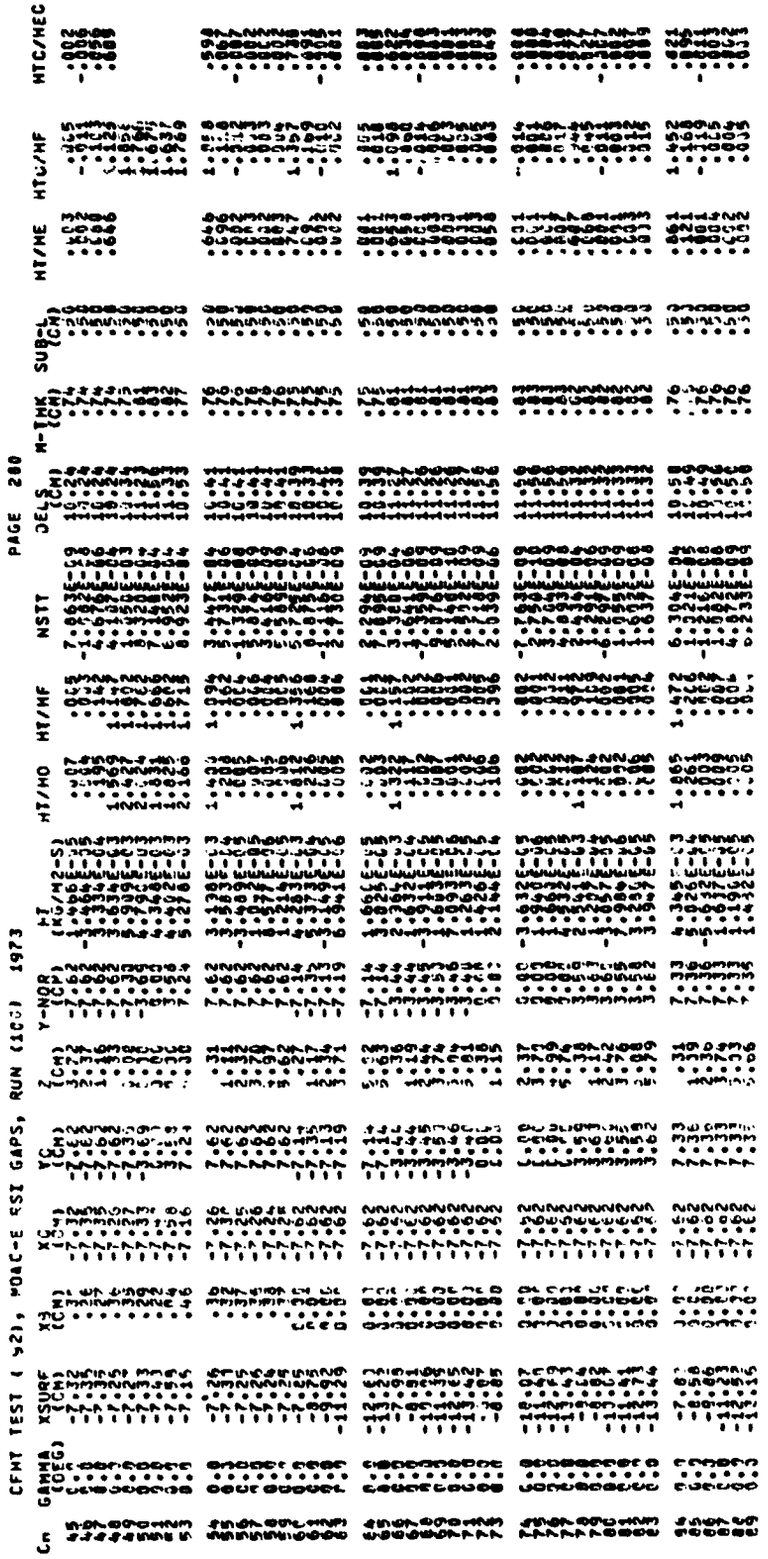
MACH = 16.292 TT = * 1.019E+03(K)
RX/FT = 3.211E-04 PT = * 5.182E+01(N/M2)
RL E06 = 6.442E-02 T1 = * 4.807E+01(K)
RE/METER = 3.166E+06 P1 = * 4.822E+01(N/M2)
HO = 2.819E+08(W/M2-K) (RHO V)1 = * 1.081E-01(KG/M2-S)
TW = 297.4 (K) GAP = 1.229 (CM)
STEP = .254(CM) CONF =IN-L

TAW/TT =0.89E FCR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE XS = X-COOR. FROM TILE LEADER
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(-) OR (DEG) YC = Y-COOR. FROM TILE TOP
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HE, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

SPECIFIC HEAT CORRECTED

CH	GAMMA (DEG)	XSURF (CM)	XS (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
44	0.0	-7.33	.29	-7.62	.91	-7.62	1.957E-05	.385	.053	6.596E-09	19.24	.74	.50	.802	.006	.803

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CFHT TEST (92), MDAC-E RSI GAPS, RUN (101) 1973 PAGE 281

MACH = 10.297 TI = 1.022E+03(K)
RX E06 = 1.324E+05 PI = 5.184E+06(N/M2)
RL E06 = 8.124E-02 TW = 4.813E+01(K)
RE/METER = 3.159E+06 PW = 9.025E+01(N/M2)
HO = 2.419E+08(W/M2-K) (RHO V)1 = 1.119E+01(KG/M2-S)
TW = 555.4 (K) GAP = .229 (CM)
STEP = .254(CM) CONF =IN-L

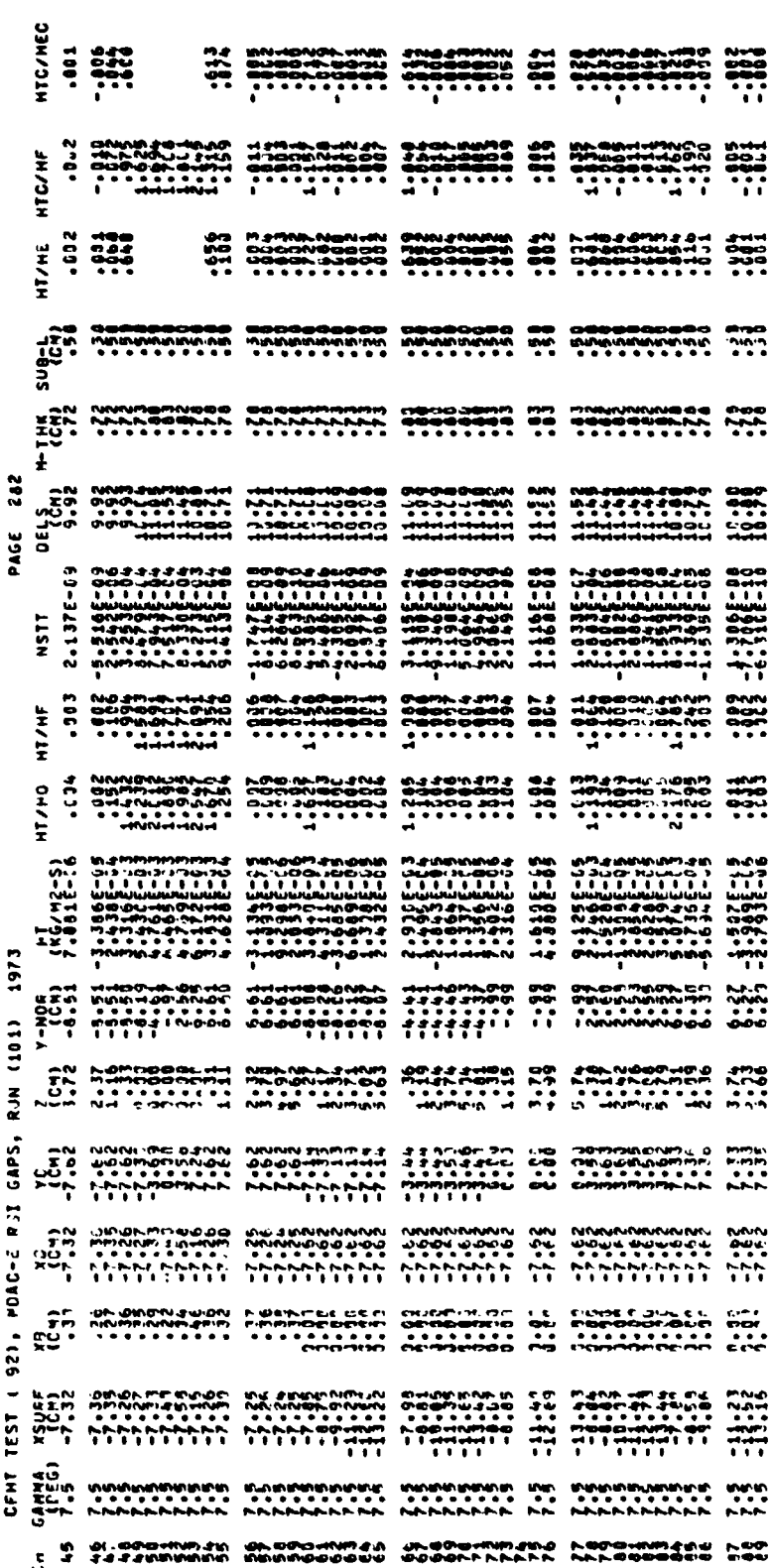
TAN/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG.)

TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

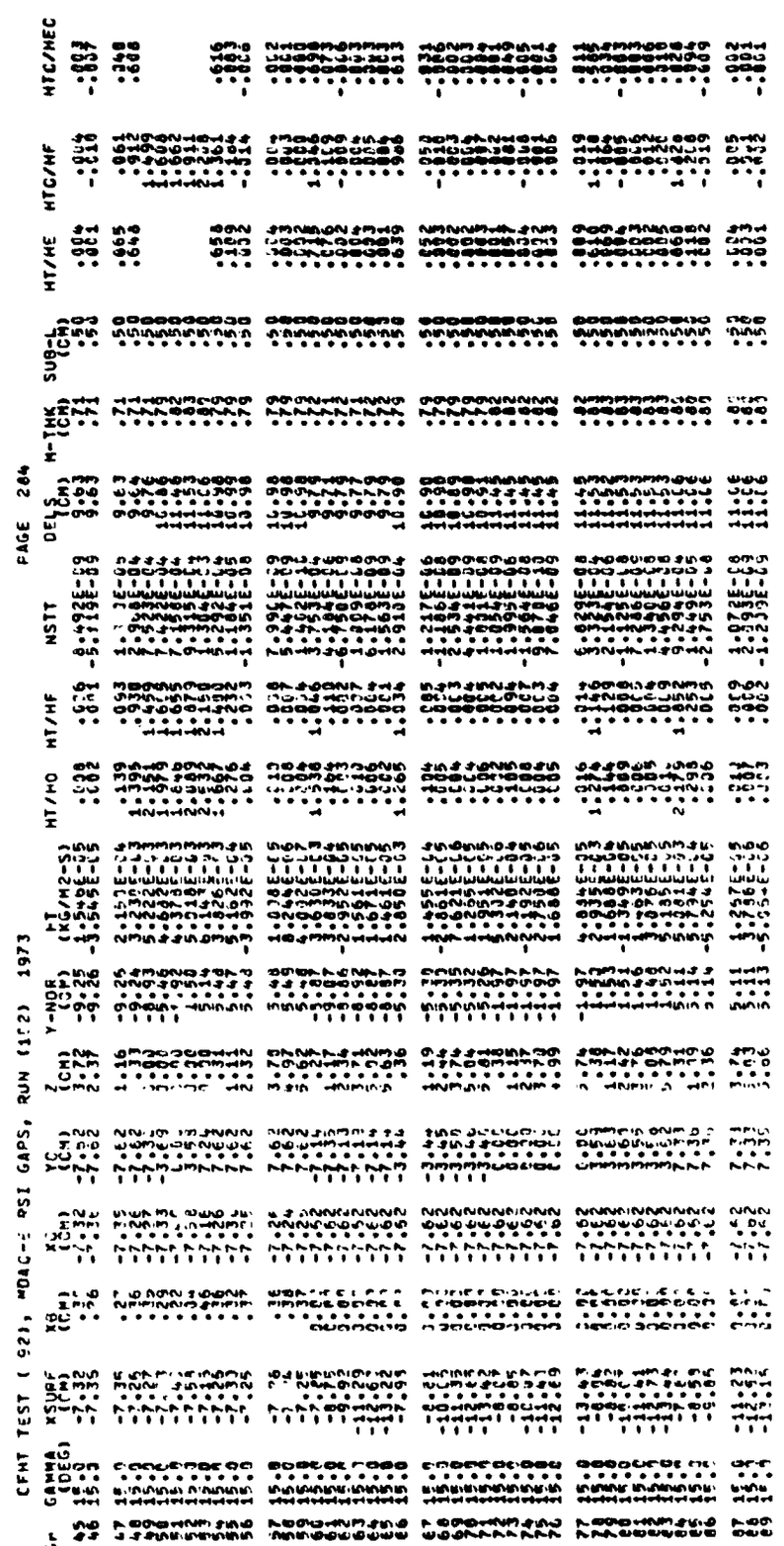
HT/HF, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	7.5	8.02	7.62	0.00	-7.62	5.03	-7.55	7.468E-05	.002	.001	9.282E-09	19.26	.75	.50	.001	.023	.019
10	7.5	8.01	7.62	0.00	-7.62	3.94	-7.55	1.754E-05	.001	.001	1.936E-09	19.26	.75	.50	.001	.005	.004
13	7.5	8.02	7.62	0.00	-7.62	1.14	-7.55	6.931E-05	.002	.001	3.340E-09	19.26	.75	.50	.001	.022	.018
14	7.5	8.01	7.62	0.00	-7.62	.33	-7.55	2.210E-03	.046	.029	1.516E-04	18.26	.75	.50	.029	.688	.562
15	7.5	8.00	7.62	0.00	-7.29	0.00	-7.23	3.891E-03	1.644	1.225	4.689E-04	13.37	.75	.50		1.224	
16	7.5	8.00	7.62	0.00	-3.61	0.00	-3.60	3.179E-03	1.344	1.172	3.676E-04	11.24	.81	.50		1.174	
17	7.5	8.00	7.62	0.00	.00	0.00	0.00	3.027E-03	1.278	1.163	3.472E-04	11.56	.83	.50		1.163	
18	7.5	8.00	7.62	0.00	3.94	0.00	3.93	2.953E-03	1.281	1.126	3.288E-04	11.34	.82	.50		1.099	
19	7.5	8.01	7.62	0.00	7.27	1.88	7.28	2.749E-03	1.207	.957	2.596E-04	10.54	.77	.50		.923	
20	7.5	8.02	7.62	0.00	7.62	.64	7.55	1.648E-06	.001	.001	8.887E-11	10.43	.76	.50	.001	.001	.001
21	7.5	8.03	7.62	0.00	7.62	1.17	7.55	1.234E-04	.054	.052	7.002E-07	10.43	.76	.50	.061	-.047	-.045
22	7.5	8.03	7.62	0.00	7.62	2.39	7.55	-1.622E-05	.007	.007	-1.143E-08	10.43	.76	.50	.008	-.006	-.006
23	7.5	8.00	7.62	0.00	7.62	3.70	7.55	1.779E-05	.008	.004	6.551E-09	10.43	.76	.50	.004	.006	.006
24	7.5	8.01	7.62	0.00	7.62	5.07	7.55	3.327E-05	.015	.006	1.540E-08	11.43	.76	.50	.005	.011	.010
25	7.5	8.02	7.62	0.00	-7.62	5.73	7.55	3.137E-05	.014	.002	6.338E-09	10.43	.76	.50	.002	.010	.011
26	7.5	-3.76	3.86	-3.76	-7.62	5.70	-0.05	7.977E-05	.001	.001	7.826E-09	10.09	.74	.50	.001	.025	.019
27	7.5	-3.75	3.86	-3.76	-7.62	3.72	-0.05	1.089E-05	.002	.001	-1.605E-09	10.09	.74	.50	.001	-.003	-.003
28	7.5	-3.81	3.81	-3.81	-7.62	2.44	-0.05	-3.131E-05	.003	.002	-6.390E-09	10.09	.73	.50	.002	-.010	-.008
29	7.5	-3.83	3.79	-3.83	-7.62	1.16	-0.05	7.517E-05	.070	.050	3.689E-07	10.09	.73	.50	.042	.023	.018
30	7.5	-3.87	3.76	-3.87	-7.62	.33	-0.06	2.285E-03	.989	.708	1.589E-04	10.09	.73	.50	.589	.689	.553
31	7.5	-3.79	3.83	-3.79	-7.24	0.00	-7.67	4.043E-03	1.681	1.225	4.884E-04	10.22	.74	.50		1.247	
32	7.5	-3.92	3.70	-3.92	-3.71	0.00	-4.19	3.532E-03	1.481	1.266	4.373E-04	11.14	.83	.50		1.269	
33	7.5	-3.95	3.67	-3.95	.00	0.00	-.52	3.362E-03	1.421	1.288	4.272E-04	11.55	.83	.50		1.298	
34	7.5	-3.89	3.73	-3.89	3.59	0.00	3.05	3.498E-03	1.480	1.275	4.285E-04	11.39	.82	.50		1.277	
37	7.5	-3.74	3.88	-3.74	7.23	1.13	6.73	3.240E-03	1.344	1.085	3.467E-04	10.68	.76	.50		1.117	
38	7.5	-3.79	3.83	-3.79	7.62	.37	7.06	1.294E-03	.575	.459	5.854E-05	11.58	.77	.50	.428	.437	.394
39	7.5	-3.74	3.88	-3.74	7.62	1.15	7.07	2.604E-05	.157	.045	1.163E-07	11.58	.77	.50	.042	.097	.088
40	7.5	-3.82	3.80	-3.82	7.62	2.35	7.06	-2.658E-05	.105	.004	-1.059E-08	11.58	.77	.50	-.004	-.099	-.089
41	7.5	-3.82	3.80	-3.82	7.62	3.62	7.05	-2.382E-05	.087	.005	-1.244E-08	11.58	.77	.50	-.005	-.089	-.080
42	7.5	-3.67	3.96	-3.67	7.62	4.74	7.08	3.122E-06	.011	.002	2.934E-10	11.58	.77	.50	.002	.011	.010
43	7.5	-3.62	4.01	-3.62	7.62	5.68	7.14	5.714E-06	.021	.002	1.766E-09	11.58	.77	.50	.002	.019	.017
44	7.5	-7.35	.29	-7.35	-7.62	5.70	-0.51	1.494E-05	.001	.001	1.490E-09	9.92	.72	.50	.001	.004	.003
45	7.5	-7.37	.29	-7.37	-7.62	4.91	-0.51	1.271E-05	.001	.002	2.421E-09	9.92	.72	.50	.001	.004	.003



CFHT TEST (92), MDAC-E RSI GAPS, RUN (1C2) 1973

SPECIFIC HEAT CORRECTED



ORIGINAL PAGE IS
OF POOR QUALITY

CFHT TEST (92), MDAC-E RSI GAPS, RUN (1:3) 1973

MACH = 10.29*
RX E06 = 3.20E+06
RL E06 = 8.34E+06
RE/METER = 8.51E+06 (M/M2-K)
HO = 29.19E+06 (KJ/KG)
TW = 2953. (K)
STEP = .254 (CM)

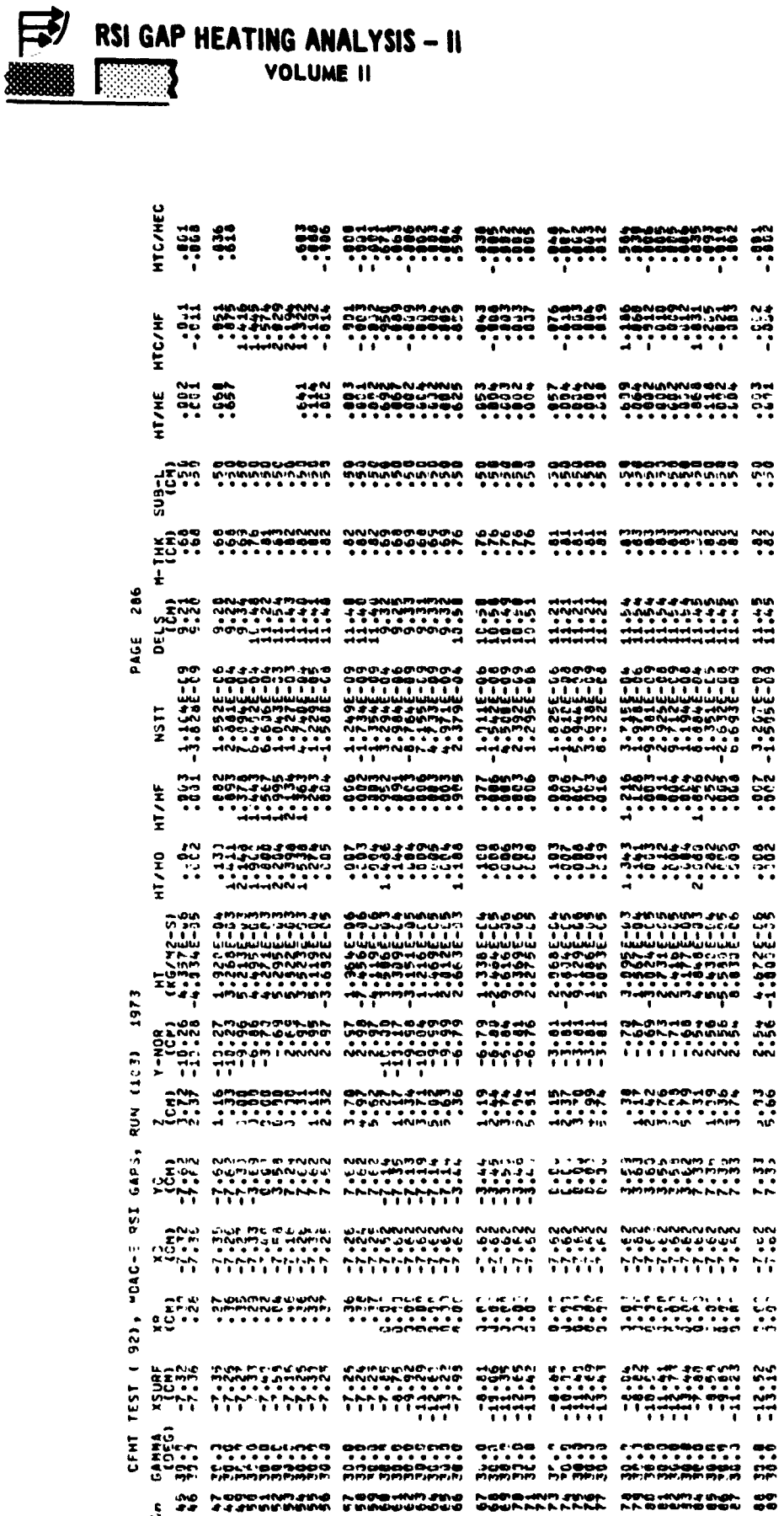
PT = 5.102E+03 (N/M2)
TT = 1.022E+03 (K)
PT = 4.802E+01 (N/M2)
TT = 1.211E+01 (K)
P1 = 4.802E+01 (N/M2)
(RHO V)1 = 1.211E+01 (KG/M2-S)
GAP = .223 (CM)
CON. =IN-L

TAW/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION)
HT/HE, GAP HEATING RATIO TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

TILE COORDINATES(GAMMA=6.6
XG = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

GAMMA (DEG)	XSURF (CM)	XG (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	N-THK (CM)	SUB-L (CM)	HT/HE	HTG/HF	HTG/HEC
0	.254	10.414	-7.366	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	10.668	-7.112	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	10.922	-6.858	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	11.176	-6.604	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	11.430	-6.350	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	11.684	-6.096	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	11.938	-5.842	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	12.192	-5.588	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	12.446	-5.334	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	12.700	-5.080	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	12.954	-4.826	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	13.208	-4.572	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	13.462	-4.318	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	13.716	-4.064	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	13.970	-3.810	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	14.224	-3.556	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	14.478	-3.302	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	14.732	-3.048	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	14.986	-2.794	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	15.240	-2.540	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	15.494	-2.286	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	15.748	-2.032	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	16.002	-1.778	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	16.256	-1.524	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	16.510	-1.270	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	16.764	-1.016	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	17.018	-.762	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	17.272	-.508	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	17.526	-.254	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	17.780	.000	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	18.034	.254	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	18.288	.508	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	18.542	.762	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	18.796	1.016	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	19.050	1.270	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	19.304	1.524	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	19.558	1.778	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	19.812	2.032	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	20.066	2.286	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	20.320	2.540	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	20.574	2.794	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	20.828	3.048	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	21.082	3.302	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	21.336	3.556	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	21.590	3.810	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	21.844	4.064	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	22.098	4.318	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	22.352	4.572	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	22.606	4.826	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	22.860	5.080	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	23.114	5.334	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	23.368	5.588	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	23.622	5.842	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	23.876	6.096	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	24.130	6.350	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	24.384	6.604	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	24.638	6.858	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	24.892	7.112	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011
0	.254	25.146	7.366	-7.366	0.000	-6.604	3.102E-01	.011	.011	1.000	11.176	.762	.254	.011	.011	.011



CFHT TEST (92), MDAC-E RSI GAPS, RUN (116) 1973

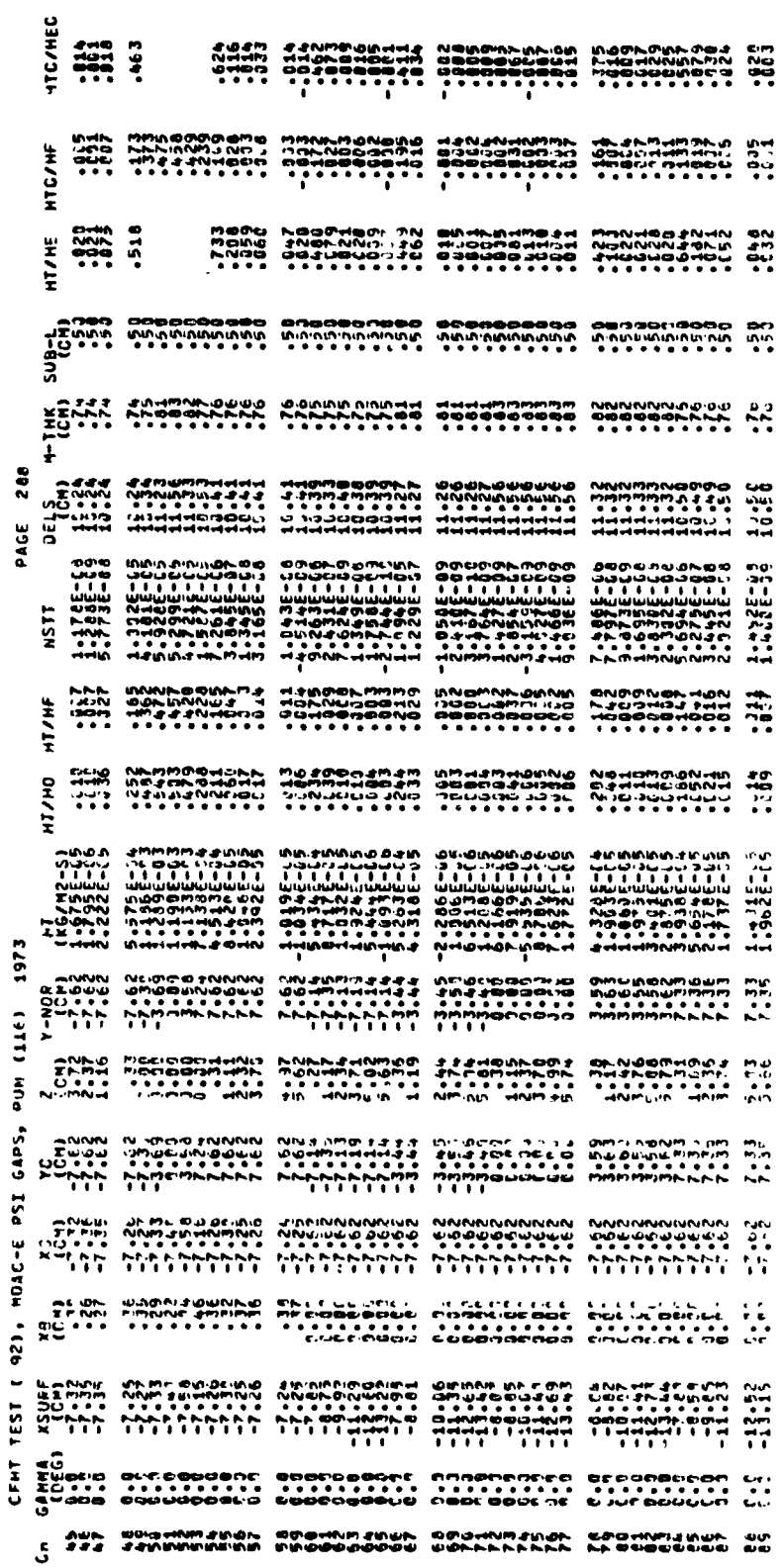
MACH = 10.294 TT = 1.005E+03(K)
RX EOS = 3.319E-01 PI = 5.180E+06(N/M2)
RL EOS = 8.333E-02 T1 = 4.706E+01(K)
RE/METER = 2.301E+06 (M**-1) D1 = 9.804E+01(N/M2)
HO = 2.619E+08 (M**2/S**2) (RHO V)1 = 1.032E+01(KG/M2-S)
TW = 299.8 (K) GAP = .229 (CM)
STEP = -.152 (CM) CONF =STAG

IAWTT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (180 OR 90 DEG.)
HT/HE, GAP HEATING RATIOED TO EDGE AI TILE TCP
HTC/HF, GAP HEATING RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HTC/HE

TILE COORDINATES(GAMMA=5°)
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
2	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
3	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
4	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
5	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
6	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
7	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
8	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
9	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
10	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
11	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
12	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
13	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
14	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
15	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
16	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
17	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
18	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
19	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846
20	0.0	0.000	7.662	0.000	-7.662	3.027	-7.662	2.665E-03	1.128	1.027	7.352E-09	.024	.774	.550	.889	.864	.846



ORIGINAL PAGE IS
OF POOR QUALITY

CFHT TEST (92), MOAC-E RSI GAPS, RUN (117) 1973 PAGE 289

MACH = 18.298 TI = 9.698E+02(K)
RX E06 = 3.339E-01 PI = 5.182E+06(N/M2)
RL E06 = 8.347E-02 TI = 4.708E+01(K)
RE/METER = 3.28EE+06 PI = 9.649E+01(N/M2)
HO = 2.619E+07(W/M2-K) (RHO V)1 = 1.733E+01(KG/M2-S)
TW = 289.9 (K) GAP = .229 (CM)
STEP = -.1E-9(CM) CONF =STAG

TAW/TT =0.895 FOR HT/HO TILE COORDINATES(GAMMA=8.0
XSURF =SURFACE DISTANCE X8 = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.? OR 90 DEG) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CM	GAMMA (DEG)	XSURF (CM)	X8 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	15.0	8.37	7.62	0.00	-7.62	2.78	-7.36	3.933E-06	.204	.803	1.111E-09	10.32	.75	.38	.035	.861	.882
10	15.0	8.37	7.62	0.00	-7.62	5.13	-7.36	2.258E-05	.812	.479	1.319E-08	10.32	.75	.38	.816	.861	.882
11	15.0	8.37	7.62	0.00	-7.62	3.74	-7.36	1.456E-05	.408	.476	8.776E-09	10.32	.75	.38	.814	.861	.882
12	15.0	8.37	7.62	0.00	-7.62	2.36	-7.36	-6.827E-06	.805	.804	-3.228E-09	10.32	.75	.38	.807	-.862	-.883
13	15.0	8.37	7.62	0.00	-7.62	1.14	-7.36	1.372E-05	.536	.327	3.586E-08	10.32	.75	.38	.648	.861	.880
14	15.0	8.37	7.62	0.00	-7.62	.33	-7.36	7.117E-04	.321	.238	4.646E-05	10.32	.75	.38	.429	.259	.391
15	15.0	8.37	7.62	0.00	-7.62	3.39	-7.34	1.798E-03	.749	.563	9.809E-05	10.42	.76	.38		.577	
16	15.0	0.00	7.62	0.00	-3.63	1.80	-3.51	2.883E-03	1.217	1.864	2.985E-04	11.26	.81	.50		1.067	
17	15.0	0.00	7.62	0.00	0.0	1.80	3.83	2.679E-03	1.131	1.030	2.695E-04	11.26	.83	.38		1.032	
18	15.0	0.00	7.62	0.00	3.54	1.80	7.02	2.441E-03	1.122	.987	2.537E-04	11.26	.82	.38		.980	
19	15.0	0.00	7.62	0.00	7.27	1.80	7.02	1.695E-03	.804	.642	1.784E-04	10.59	.77	.38		.641	
20	15.0	0.00	7.62	0.00	7.62	.41	7.36	1.239E-05	.305	.804	4.751E-09	10.49	.76	.38	.606	.886	.886
21	15.0	0.00	7.62	0.00	7.62	1.17	7.36	1.026E-04	.963	.849	4.916E-07	10.49	.76	.38	.878	.854	.874
22	15.0	0.00	7.62	0.00	7.62	2.39	7.36	-6.929E-06	.134	.810	-6.717E-09	10.49	.76	.38	.816	-.882	-.883
23	15.0	0.00	7.62	0.00	7.62	3.78	7.36	9.372E-06	.103	.863	2.813E-09	10.49	.76	.38	.805	.863	.885
24	15.0	0.00	7.62	0.00	7.62	5.07	7.36	3.729E-05	.917	.867	2.322E-08	10.49	.76	.38	.811	.863	.884
25	15.0	0.00	7.62	0.00	7.62	5.73	7.36	5.610E-05	.00	.813	7.08J9E-08	10.49	.76	.38	.820	.862	.884
26	15.0	-3.76	3.86	-3.76	7.62	5.78	-8.33	8.109E-06	.00	.804	2.969E-09	9.99	.73	.38	.806	.302	.884
27	15.0	-3.81	3.82	-3.76	-7.62	3.96	-8.34	1.451E-05	.00	.806	8.198E-09	9.98	.73	.38	.809	.304	.887
28	15.0	-3.76	3.86	-3.76	-7.62	3.72	-8.33	2.732E-06	.00	.803	1.832E-10	9.99	.73	.38	.824	-.884	-.886
29	15.0	-3.76	3.86	-3.76	-7.62	2.44	-8.35	-1.235E-05	.00	.805	-8.182E-09	9.98	.73	.38	.885	-.884	-.886
30	15.0	-3.67	3.73	-3.67	-7.62	1.16	-8.35	1.104E-05	.00	.825	2.854E-08	9.98	.73	.38	.841	.882	.884
31	15.0	-3.67	3.73	-3.67	-7.62	.33	-8.36	9.367E-06	.00	.291	2.658E-08	9.98	.73	.38	.478	.270	.431
32	15.0	-3.67	3.73	-3.67	-7.62	.33	-8.36	2.128E-04	.00	.633	1.311E-06	10.12	.74	.38		.649	
33	15.0	-3.67	3.73	-3.67	-7.24	3.20	-8.00	2.364E-03	.00	.939	2.415E-04	10.86	.81	.38		.941	
34	15.0	-3.67	3.73	-3.67	-3.81	3.80	-11.82	2.364E-03	1.140	.978	2.441E-04	11.52	.83	.38		.988	
35	15.0	-3.67	3.73	-3.67	0.00	3.80	2.46	2.377E-03	1.108	.982	2.491E-04	11.46	.82	.38		.985	
36	15.0	-3.74	3.86	-3.74	7.23	3.80	6.06	1.859E-03	.776	.641	1.17J-04	13.85	.75	.38		.657	
37	15.0	-3.73	3.81	-3.73	7.62	.37	6.38	8.913E-06	.363	.296	2.318E-05	10.77	.78	.38	.467	.277	.422
38	15.0	-3.74	3.86	-3.74	7.62	1.15	6.39	4.742E-05	.557	.847	2.166E-07	10.77	.78	.38	.874	.816	.825
39	15.0	-3.74	3.86	-3.74	7.62	2.35	6.38	-1.493E-05	.608	.807	-9.443E-09	10.77	.78	.38	.118	-.802	-.880
40	15.0	-3.74	3.86	-3.74	7.62	3.52	6.38	1.555E-05	.327	.266	8.364E-09	10.77	.78	.38	.809	.802	.880
41	15.0	-3.67	3.73	-3.67	7.62	5.34	6.41	8.062E-06	.097	.066	4.971E-09	10.76	.78	.38	.809	.803	.885
42	15.0	-3.67	3.73	-3.67	7.62	6.68	5.32	5.273E-06	.099	.068	3.944E-09	10.76	.78	.38	.812	.810	.880
43	15.0	-3.67	3.73	-3.67	7.62	5.70	-9.26	1.814E-05	.102	.801	2.214E-09	9.63	.71	.38	.804	.815	.816
44	15.0	-7.33	.29	-7.33	-7.62	4.91	-9.25	1.776E-05	.034	.802	3.433E-09	9.63	.71	.38	.818	.814	.813

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Cm	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
45	15.0	-7.336	.326	-7.62	-7.62	3.72	-9.25	1.982E-05	.107	.025	5.345E-09	9.63	.771	.20	.115	.383	.118
46	15.0	-7.336	.326	-7.62	-7.62	2.39	-9.26	1.982E-05	.211	.025	5.345E-09	9.63	.771	.20	.324	.383	.118
47	15.0	-7.336	.326	-7.62	-7.62	1.39	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.479	.383	.118
48	15.0	-7.336	.326	-7.62	-7.62	1.13	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
49	15.0	-7.336	.326	-7.62	-7.62	.89	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
50	15.0	-7.336	.326	-7.62	-7.62	.65	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
51	15.0	-7.336	.326	-7.62	-7.62	.41	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
52	15.0	-7.336	.326	-7.62	-7.62	.17	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
53	15.0	-7.336	.326	-7.62	-7.62	-.07	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
54	15.0	-7.336	.326	-7.62	-7.62	-.31	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
55	15.0	-7.336	.326	-7.62	-7.62	-.55	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
56	15.0	-7.336	.326	-7.62	-7.62	-.79	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
57	15.0	-7.336	.326	-7.62	-7.62	-1.03	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
58	15.0	-7.336	.326	-7.62	-7.62	-1.27	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
59	15.0	-7.336	.326	-7.62	-7.62	-1.51	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
60	15.0	-7.336	.326	-7.62	-7.62	-1.75	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
61	15.0	-7.336	.326	-7.62	-7.62	-1.99	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
62	15.0	-7.336	.326	-7.62	-7.62	-2.23	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
63	15.0	-7.336	.326	-7.62	-7.62	-2.47	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
64	15.0	-7.336	.326	-7.62	-7.62	-2.71	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
65	15.0	-7.336	.326	-7.62	-7.62	-2.95	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
66	15.0	-7.336	.326	-7.62	-7.62	-3.19	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
67	15.0	-7.336	.326	-7.62	-7.62	-3.43	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
68	15.0	-7.336	.326	-7.62	-7.62	-3.67	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
69	15.0	-7.336	.326	-7.62	-7.62	-3.91	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
70	15.0	-7.336	.326	-7.62	-7.62	-4.15	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
71	15.0	-7.336	.326	-7.62	-7.62	-4.39	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
72	15.0	-7.336	.326	-7.62	-7.62	-4.63	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
73	15.0	-7.336	.326	-7.62	-7.62	-4.87	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
74	15.0	-7.336	.326	-7.62	-7.62	-5.11	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
75	15.0	-7.336	.326	-7.62	-7.62	-5.35	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
76	15.0	-7.336	.326	-7.62	-7.62	-5.59	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
77	15.0	-7.336	.326	-7.62	-7.62	-5.83	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
78	15.0	-7.336	.326	-7.62	-7.62	-6.07	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
79	15.0	-7.336	.326	-7.62	-7.62	-6.31	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
80	15.0	-7.336	.326	-7.62	-7.62	-6.55	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
81	15.0	-7.336	.326	-7.62	-7.62	-6.79	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
82	15.0	-7.336	.326	-7.62	-7.62	-7.03	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
83	15.0	-7.336	.326	-7.62	-7.62	-7.27	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
84	15.0	-7.336	.326	-7.62	-7.62	-7.51	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
85	15.0	-7.336	.326	-7.62	-7.62	-7.75	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
86	15.0	-7.336	.326	-7.62	-7.62	-7.99	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
87	15.0	-7.336	.326	-7.62	-7.62	-8.23	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
88	15.0	-7.336	.326	-7.62	-7.62	-8.47	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
89	15.0	-7.336	.326	-7.62	-7.62	-8.71	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
90	15.0	-7.336	.326	-7.62	-7.62	-8.95	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
91	15.0	-7.336	.326	-7.62	-7.62	-9.19	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
92	15.0	-7.336	.326	-7.62	-7.62	-9.43	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
93	15.0	-7.336	.326	-7.62	-7.62	-9.67	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
94	15.0	-7.336	.326	-7.62	-7.62	-9.91	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
95	15.0	-7.336	.326	-7.62	-7.62	-10.15	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
96	15.0	-7.336	.326	-7.62	-7.62	-10.39	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
97	15.0	-7.336	.326	-7.62	-7.62	-10.63	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
98	15.0	-7.336	.326	-7.62	-7.62	-10.87	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
99	15.0	-7.336	.326	-7.62	-7.62	-11.11	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
100	15.0	-7.336	.326	-7.62	-7.62	-11.35	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
101	15.0	-7.336	.326	-7.62	-7.62	-11.59	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
102	15.0	-7.336	.326	-7.62	-7.62	-11.83	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
103	15.0	-7.336	.326	-7.62	-7.62	-12.07	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
104	15.0	-7.336	.326	-7.62	-7.62	-12.31	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
105	15.0	-7.336	.326	-7.62	-7.62	-12.55	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
106	15.0	-7.336	.326	-7.62	-7.62	-12.79	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
107	15.0	-7.336	.326	-7.62	-7.62	-13.03	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118
108	15.0	-7.336	.326	-7.62	-7.62	-13.27	-9.26	1.982E-05	.537	.025	5.345E-09	9.63	.771	.20	.507	.383	.118

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CFMT TEST (92), MCAC-E RSI GAPS, RUN (118) 1973 PAGE 251

MACH = 10.290
RX E06 = 3.348E-01
RL E06 = 6.363E-02
RE/METER = 3.292E+06
HO = 2.619E+00(N/M2-K)
TW = 300.7 (K)
STEP = -.168(CM)

TT = 9.993E+02(K)
PI = 5.187E+06(N/M2)
T1 = 4.705E+01(K)
P1 = 9.859E+01(N/M2)
(RHO V)1 = 1.334E+01(KG/M2-S)
GAP = .229 (CM)
CONF = STAG

TAW/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG.)

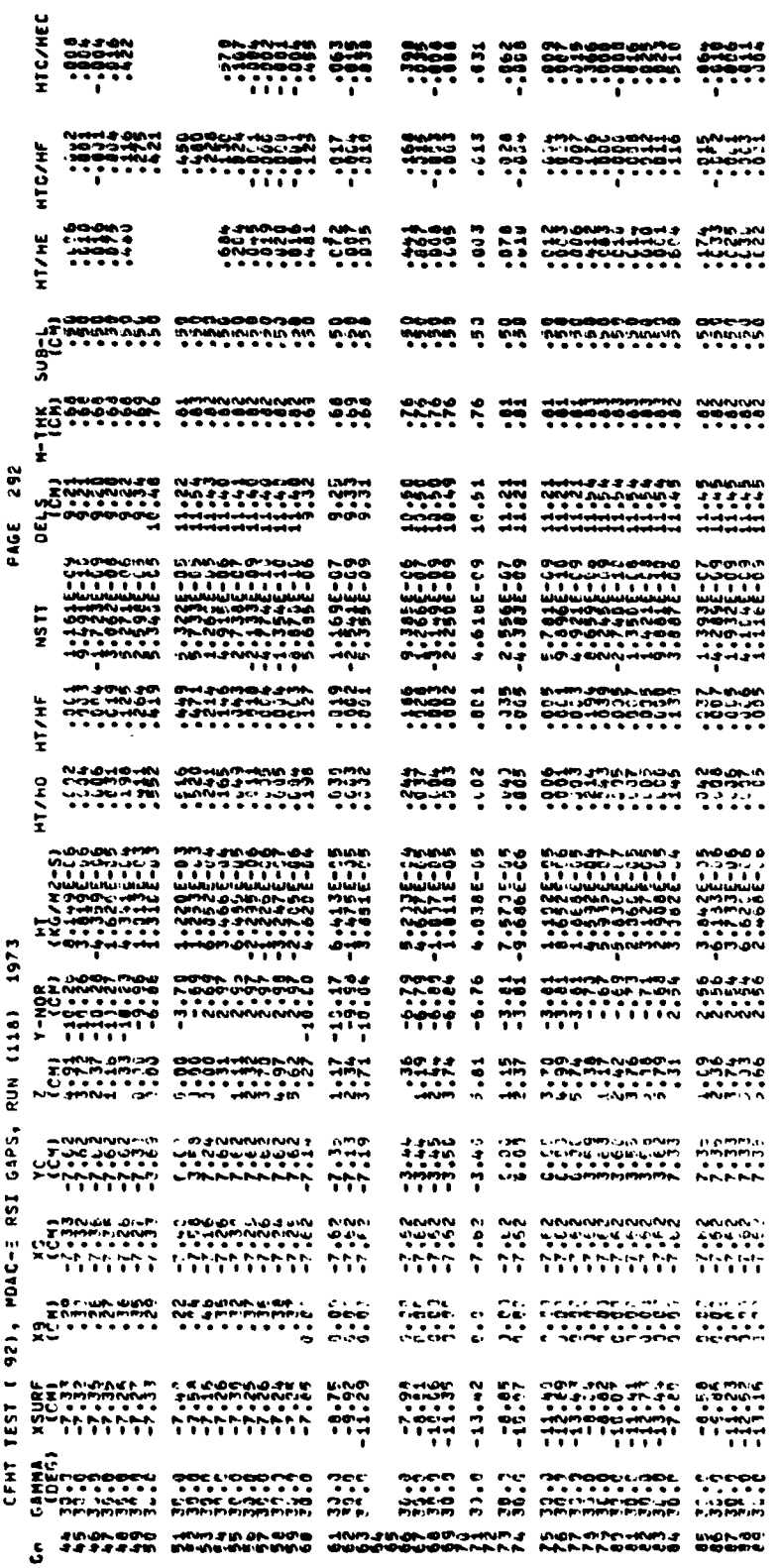
TILE COORDINATES(GAMMA=0.0)
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF,GAP HEATING (CONDUCTION CORRECTED) R'TIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	30.0	0.00	7.62	.00	-7.62	5.70	-6.60	2.235E-05	.009	.007	1.442E-08	10.56	.77	.50	.014	.067	.015
10	30.0	0.00	7.62	0.00	-7.62	5.03	-6.60	1.553E-05	.007	.005	7.692E-09	10.56	.77	.50	.011	.005	.011
11	30.0	0.00	7.62	0.00	-7.62	3.74	-6.60	6.769E-07	.002	.002	1.077E-10	10.56	.77	.50	.003	.000	.000
12	30.0	0.00	7.62	0.00	-7.62	2.36	-6.60	2.031E-06	.009	.007	1.365E-09	10.56	.77	.50	.015	.001	.001
13	30.0	0.00	7.62	0.00	-7.62	1.14	-6.60	1.554E-05	.034	.026	3.926E-08	10.56	.77	.50	.056	.005	.011
14	30.0	0.00	7.62	0.00	-7.62	.33	-6.60	5.907E-04	.267	.206	1.181E-05	10.56	.77	.50	.440	.192	.480
15	30.0	0.00	7.62	0.00	-7.29	0.00	-6.32	1.457E-03	.608	.475	6.719E-05	10.64	.77	.50		.481	
16	30.0	0.00	7.62	0.00	-3.63	0.00	-3.15	2.908E-03	1.228	1.001	3.056E-04	11.31	.81	.50		1.004	
17	30.0	0.00	7.62	0.00	0.00	0.00	0.00	2.746E-03	1.159	1.058	2.816E-04	11.50	.83	.50		1.050	
18	30.0	0.00	7.62	0.00	3.54	0.00	3.07	2.600E-03	1.104	.977	2.470E-04	11.39	.82	.50		.974	
19	30.0	0.00	7.62	0.00	7.27	0.00	6.29	1.832E-03	.777	.637	1.134E-04	10.79	.78	.50		.636	
20	30.0	0.00	7.62	0.00	7.62	.41	6.60	4.218E-06	.002	.001	5.935E-10	10.71	.78	.50	.002	.001	.002
21	30.0	0.00	7.62	0.00	7.62	1.17	6.60	2.715E-06	.008	.008	4.476E-07	10.71	.78	.50	.077	.033	.053
22	30.0	0.00	7.62	0.00	7.62	2.39	6.60	-1.514E-05	.007	.007	-9.996E-09	10.71	.78	.50	.011	-.006	-.008
23	30.0	0.00	7.62	0.00	7.62	3.78	6.60	3.534E-05	.008	.006	1.729E-08	10.71	.78	.50	.010	.007	.012
24	30.0	0.00	7.62	1.06	7.62	3.07	6.60	3.211E-05	.007	.005	1.701E-08	10.71	.78	.50	.009	.011	.017
25	30.0	0.00	7.62	0.00	7.62	5.73	6.60	3.171E-05	.004	.003	9.431E-09	10.71	.78	.50	.005	.011	.017
26	30.0	-3.76	3.86	-3.76	-7.62	5.70	-8.48	1.929E-06	.003	.002	3.364E-10	9.93	.72	.50	.003	.001	.001
27	30.0	-3.80	3.82	-3.80	-7.62	5.04	-8.50	4.598E-07	.002	.001	6.809E-11	9.93	.72	.50	.003	.000	.000
28	30.0	-3.76	3.86	-3.76	-7.62	3.72	-8.48	4.279E-06	.004	.003	1.074E-09	9.93	.72	.50	.004	.001	.002
29	30.0	-3.81	3.81	-3.81	-7.62	2.44	-8.51	-2.056E-09	.001	.000	-6.811E-12	9.93	.72	.50	.001	-.006	-.011
30	30.0	-3.83	3.79	-3.83	-7.62	1.16	-8.51	9.793E-06	.032	.022	2.137E-08	9.92	.72	.50	.044	.003	.005
31	30.0	-3.87	3.75	-3.87	-7.62	.33	-8.53	7.440E-04	.334	.232	1.60[illegible]	9.91	.72	.50	.452	.220	.411
32	30.0	-3.79	3.83	-3.79	-7.24	0.00	-8.17	1.782E-03	.738	.523	9.05[illegible]	10.05	.73	.50		.534	
33	30.0	-3.92	3.70	-3.92	-3.71	0.00	-5.17	2.700E-03	1.140	.937	2.459E-04	10.93	.79	.50		.939	
34	30.0	-3.95	3.67	-3.95	0.00	0.00	-1.98	2.611E-03	1.103	.988	2.508E-04	11.49	.82	.50		.991	
35	30.0	-3.89	3.73	-3.89	3.59	0.00	1.17	2.685E-03	1.132	1.021	2.665E-04	11.54	.83	.50		1.025	
36	30.0	-3.74	3.88	-3.74	7.29	0.00	4.43	1.913E-03	.789	.681	1.266E-04	11.19	.81	.50		.699	
37	30.0	-3.79	3.83	-3.79	7.62	.37	4.70	8.177E-04	.369	.316	2.515E-05	11.14	.80	.50	.468	.297	.425
38	30.0	-3.74	3.88	-3.74	7.62	1.15	4.73	4.318E-05	.053	.046	1.784E-07	11.14	.80	.50	.068	.015	.021
39	30.0	-3.81	3.82	-3.83	7.62	2.35	4.73	-6.145E-06	.005	.004	-2.549E-09	11.14	.80	.50	.006	-.002	-.003
40	30.0	-3.80	3.82	-3.80	7.62	3.52	4.70	6.430E-05	.005	.004	2.439E-08	11.14	.80	.50	.006	.023	.033
41																	
42	30.0	-3.62	4.00	-3.62	7.62	5.68	4.79	-7.142E-05	.004	.004	-2.469E-08	11.13	.80	.50	.035	-.026	-.037
43	30.0	-7.35	.27	-7.35	-7.62	5.73	-13.27	1.384E-05	.002	.001	1.995E-09	9.20	.66	.30	.006	.334	.013

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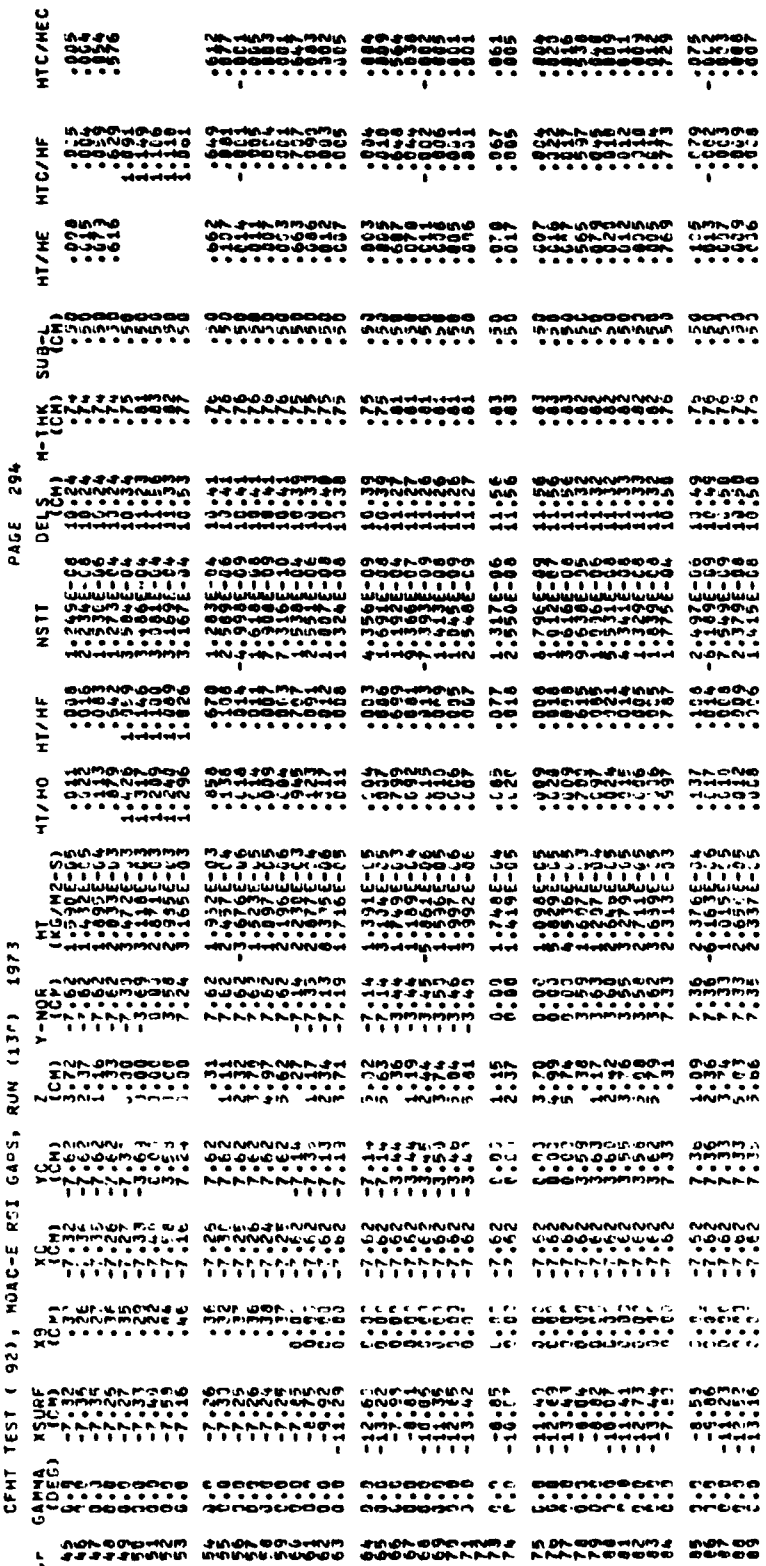
CFHT TEST (92), MDAC-E RSI GAPS, RUN (13:) 1973 PAGE 293

MACH = 1.[illegible]E-21 PI = 9.[illegible]E+02(K)
RX_E06 = 3.[illegible] PI = 5.[illegible]E+01(K/M2)
RE/E06 = 6.[illegible] PI = 4.[illegible]E+01(K/M2)
RE/METER = 3.[illegible]E+06 (W/M2-K) (RHO V)1 = 1.[illegible]E-01 (KG/M2-S)
STEP = 3.[illegible] (CM) CONF =IN-L =.711 (CM)

TILE COORDINATES(GAMMA=[illegible]
XSURF =SURFACE DISTANCE FROM STAGNATION POINT TO EDGE AT TILE CENTER
(FLOW CORRECTION) XC = X-COOR. FROM TILE CENTER
HT/HE, GAP HEATING REDUCTION CORRECTED HT/HE YC = Y-COOR. FROM TILE CENTER
HTC/HE, GAP HEATING REDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE SPECIFIC HEAT CORRECTED

CM	GAMMA (DEG)	XSURF (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
[illegible]																

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CFHT TEST (92), MOAC-E RSI GAPS, RUN (13F) 1973
PAGE 294
GAMMA (DEG)
XSURF (CM)
XG (CM)
XG (CM)
Z (CM)
Y-NOR
HT (KG/M2-S)
HT/HO
HT/HF
NSTT
DELS (CM)
M-THK (CM)
SUB-L (CM)
HT/HE
HTC/HF
HTC/HEC

CFHT TEST (92), MDAC-E PSI GAPS, RUN (131) 1973 PAGE 295

MACH = 10.297
RX E06 = 3.348E-11
RL E06 = 8.371E-22
RE/METER = 3.298E+06
HO = 2.619E+03(W/M2-K)
TW = 300.1 (K)
STEP = 0.000(CM)

TT = 9.971E+02(K)
PI = 5.170E+06(N/M2)
TI = 4.694E+01(K)
PI = 9.829E+01(N/M2)
(RHO V)1 = 1.332E+01(KG/M2-S)
GAP = .711 (CM)
CONF = IN-L

TAW/TT =0.89 FOR HT/HO
XSURF =SURFACE DISTANCE
(FLOW DIRECTION)
(0.0 OR 90 DEG)

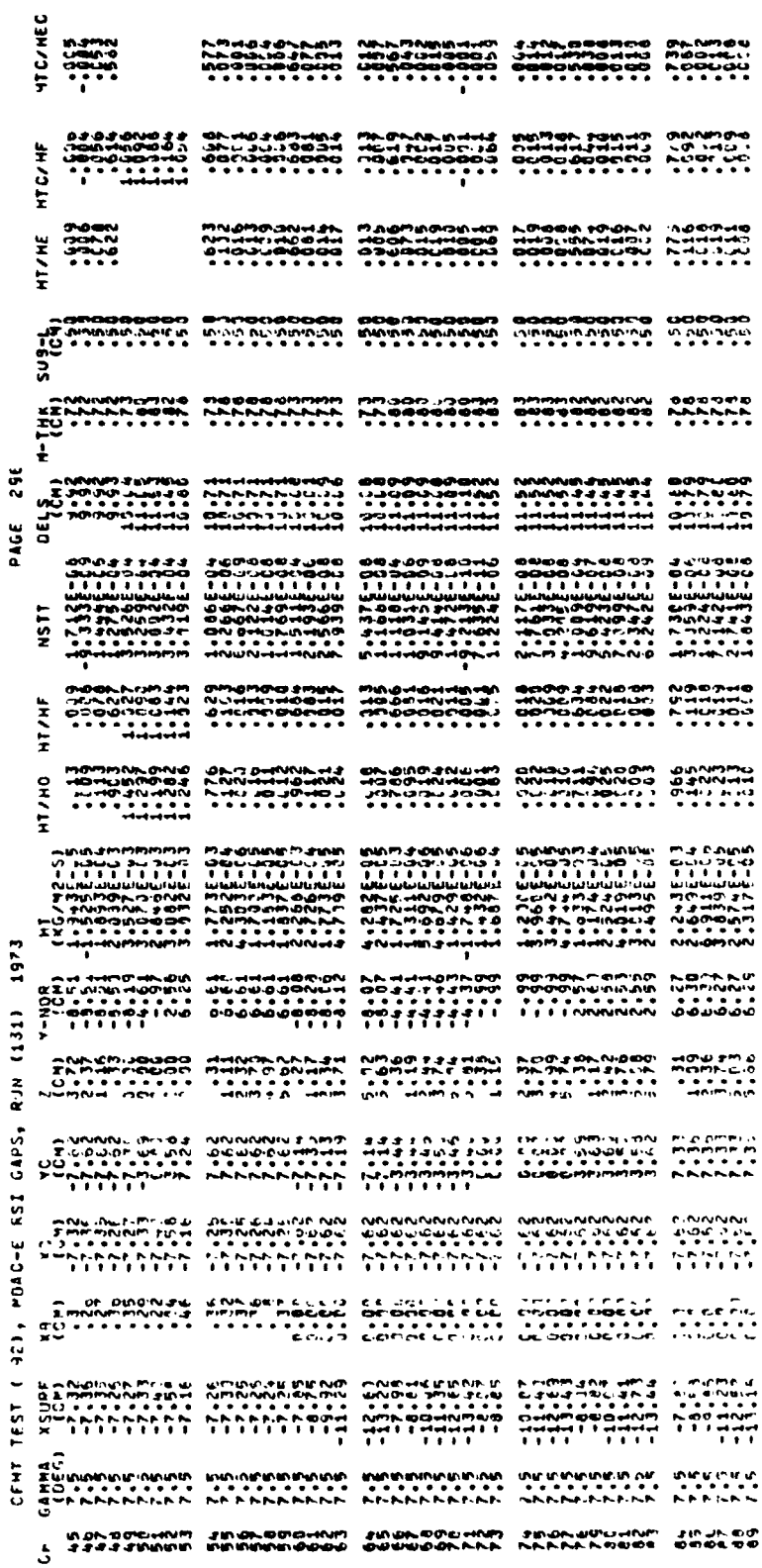
TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOP (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	7.5	0.00	7.62	0.00	-7.62	5.70	-7.55	4.351E-05	.017	.012	4.828E-08	10.26	.75	.50	.011	.013	.011
10	7.5	0.00	7.62	0.00	-7.62	5.03	-7.55	4.353E-05	.019	.014	6.004E-08	10.26	.75	.50	.013	.014	.012
11	7.5	0.00	7.62	0.00	-7.62	3.74	-7.55	2.254E-05	.013	.013	2.128E-08	10.26	.75	.50	.009	.007	.006
12	7.5	0.00	7.62	0.00	-7.62	2.36	-7.55	-4.246E-06	.016	.011	-4.742E-09	10.26	.75	.50	.010	-.001	-.001
13	7.5	0.00	7.62	0.00	-7.62	1.14	-7.55	2.313E-04	.130	.095	2.146E-06	10.26	.75	.50	.064	.072	.062
14	7.5	0.00	7.62	0.00	-7.62	.33	-7.35	2.357E-03	1.017	.746	1.712E-04	10.26	.75	.50	.659	.732	.633
15	7.5	0.00	7.62	0.00	-7.29	0.00	-7.23	3.667E-03	1.543	1.150	4.107E-04	10.37	.75	.50		1.157	
16	7.5	0.00	7.62	0.00	-3.63	0.00	-3.60	2.972E-03	1.255	1.095	3.167E-04	11.24	.81	.50		1.097	
17	7.5	0.00	7.62	0.00	0.00	0.00	0.00	2.755E-03	1.171	1.066	2.859E-04	11.56	.83	.50		1.061	
18	7.5	0.00	7.62	0.00	3.54	0.00	3.51	2.752E-03	1.184	1.041	2.791E-04	11.34	.82	.50		1.024	
19	7.5	0.00	7.62	0.00	7.27	0.00	7.20	2.676E-03	1.150	.912	2.376E-04	10.54	.77	.50		.899	
20	7.5	0.00	7.62	0.00	7.62	.41	7.55	8.037E-06	.003	.003	2.085E-09	10.43	.76	.50	.013	.003	.003
21	7.5	0.00	7.62	0.00	7.62	1.17	7.55	2.137E-04	.108	.085	1.760E-06	10.43	.76	.50	.094	.071	.079
22	7.5	0.00	7.62	0.00	7.62	2.39	7.55	2.470E-05	.026	.021	4.988E-08	10.43	.76	.50	.023	.008	.009
23	7.5	0.00	7.62	0.00	7.62	3.70	7.55	3.982E-05	.020	.016	6.137E-08	10.43	.76	.50	.018	.013	.015
24	7.5	0.00	7.62	0.00	7.62	5.07	7.55	4.621E-05	.013	.010	4.605E-08	10.43	.76	.50	.012	.016	.017
25	7.5	0.00	7.62	0.00	7.62	5.73	7.55	6.185E-05	.015	.012	7.200E-08	10.43	.76	.50	.013	.021	.023
26	7.5	-3.76	3.86	-3.76	-7.62	5.70	-8.05	2.031E-05	.009	.006	1.235E-08	10.09	.74	.50	.006	.006	.006
27	7.5	-3.80	3.92	-3.80	-7.62	5.06	-8.05	1.901E-05	.009	.007	1.242E-08	10.69	.73	.50	.007	.006	.005
28	7.5	-3.76	3.86	-3.76	-7.62	3.72	-8.05	4.154E-05	.022	.016	6.443E-08	10.09	.74	.50	.015	.013	.012
29	7.5	-3.81	3.81	-3.81	-7.62	2.44	-8.05	2.047E-05	.027	.019	[illegible]	10.43	.73	.50	.019	.012	.013
30	7.5	-3.83	3.79	-3.83	-7.62	1.16	-8.05	2.117E-04	.118	.084	1.730E-06	10.43	.73	.50	.082	.064	.066
31	7.5	-3.87	3.75	-3.87	-7.62	.33	-8.06	2.134E-03	.940	.669	4.424E-04	10.65	.73	.50	.632	.639	.615
32	7.5	-3.79	3.83	-3.79	-7.24	0.00	-7.67	3.471E-03	1.442	1.054	3.551E-04	10.65	.75	.50		1.071	
33	7.5	-3.92	3.7?	-3.92	-3.71	0.00	-4.19	3.007E-03	1.271	1.087	3.182E-04	11.14	.80	.50		1.048	
34	7.5	-3.93	3.67	-3.95	0.00	0.00	-.52	2.853E-03	1.297	1.024	3.339E-04	11.55	.83	.50		1.095	
35	7.5	-3.89	3.73	-3.89	3.59	0.00	3.05	2.949E-03	1.242	1.100	3.348E-04	11.39	.80	.50		1.135	
36	7.5	-3.74	3.83	-3.74	7.28	0.00	6.73	2.807E-03	1.164	.939	2.567E-04	10.68	.79	.50		.959	
37	7.5	-3.79	3.83	-3.79	7.62	.37	7.06	1.327E-03	.578	.461	[illegible]	10.58	.77	.50	.497	.448	.467
38	7.5	-3.74	3.89	-3.74	7.62	1.15	7.27	1.953E-04	.095	.076	1.242E-06	10.58	.77	.50	.081	.052	.055
39	7.5	-3.80	3.82	-3.8?	7.62	2.35	7.26	1.522E-05	.028	.022	9.957E-08	10.58	.77	.50	.024	.006	.009
40	7.5	-3.63	3.82	-3.8?	7.62	3.62	7.06	4.932E-05	.024	.019	9.379E-08	10.58	.77	.50	.020	.006	.017
41	7.5	-3.67	3.95	-3.67	7.62	5.04	7.08	2.236E-05	.015	.012	2.592E-08	10.58	.77	.50	.013	.009	.014
42	7.5	-3.62	4.0?	-3.62	7.62	5.98	7.08	2.232E-05	.009	.007	1.474E-08	10.58	.77	.50	.007	.007	.008
43	7.5	-7.35	.27	-7.35	-7.62	5.79	-8.51	1.27?E-05	.005	.004	4.617E-09	9.92	.72	.50	.004	.004	.004
44	7.5	-7.33	.29	-7.33	-7.62	4.91	-8.51	3.461E-05	.017	.012	3.878E-08	9.92	.72	.50	.011	.010	.010

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PAGE 297

CFHT TEST (921), MDAC-E RSI GAPS, RUN (132) 1973

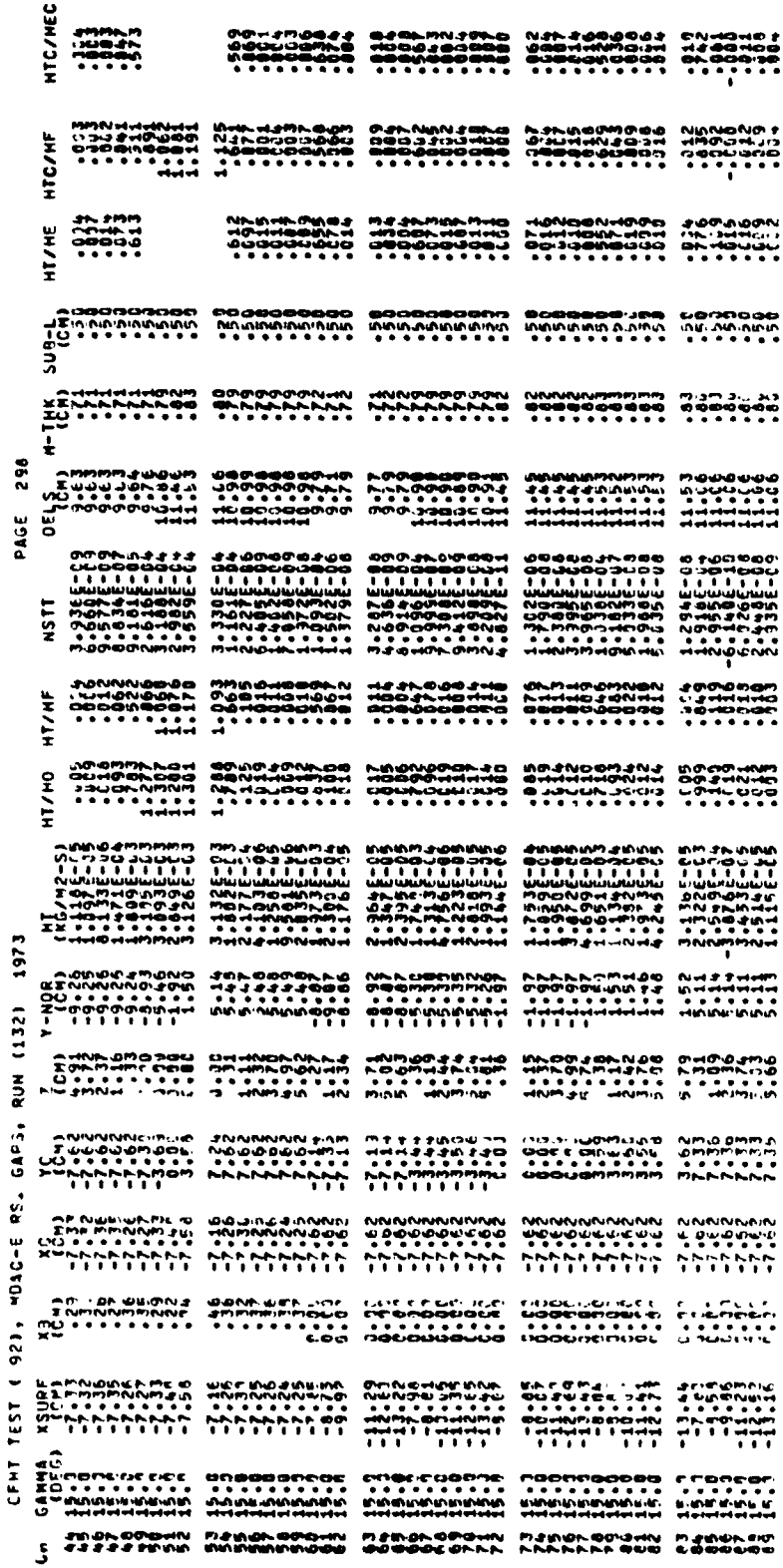
SPECIFIC HEAT CORRECTED

MACH = 14.2200 TT = 5.96[illegible]E+02(K)
RX/FT = 3.3459E-01 PI = 5.17[illegible]E+04(N/M2)
RE/FT = 8.3372E-02 TI = 4.6033E+01(K)
RE/METER = 2.2E+06 PI = 9.0033E+01(N/M2)
MO = 38[illegible].6(KG/M2-S)
TM = 38[illegible].6(K) (RHO V)1 = 1.9033E+01(KG/M2-S)
STEP = [illegible].00(CM) GAP =IN-L .211 (CM)
CONF =IN-L

TAW/TT =0.895 FCR HT/MO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE X9 = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(+ DOWNSTREAM) YC = Y-COOR. FROM TILE CENTER
HT/PE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HI (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	15.0	-7.62	-7.62	-7.62	-7.62	2.03	-17.36	1.39[illegible]E+05	.085	.803	4.58E-09	10.32	.75	.55	.603	.744	.856
2	15.0	-7.62	-7.62	-7.62	-7.62	5.03	-17.36	[illegible]	.0021	.0020	5.96E-09	10.32	.75	.55	.0013	.0012	.856
3	15.0	-7.62	-7.62	-7.62	-7.62	8.03	-17.36	[illegible]	.014	.0116	-7.78E-09	10.32	.75	.55	.0019	-.0032	.856
4	15.0	-7.62	-7.62	-7.62	-7.62	2.36	-17.36	-7.9666E-06	.014	.0116	-7.78E-09	10.32	.75	.55	.648	.1048	.856
5	15.0	-7.62	-7.62	-7.62	-7.62	1.43	-17.36	[illegible]	.122	.092	[illegible]	10.32	.75	.55	.5728	.1073	.427
6	15.0	-7.62	-7.62	-7.62	-7.62	2.43	-17.36	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0013	.0012	.427
7	15.0	-7.62	-7.62	-7.62	-7.62	5.43	-17.36	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
8	15.0	-7.62	-7.62	-7.62	-7.62	8.43	-17.36	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
9	15.0	-7.62	-7.62	-7.62	-7.62	1.83	-17.36	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
10	15.0	-7.62	-7.62	-7.62	-7.62	2.83	-17.36	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
11	15.0	-7.62	-7.62	-7.62	-7.62	5.83	-17.36	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
12	15.0	-7.62	-7.62	-7.62	-7.62	8.83	-17.36	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
13	15.0	-3.92	-3.92	-3.92	-3.71	3.13	-4.60	[illegible]	.122	.092	[illegible]	10.32	.75	.55	.5728	.1073	.427
14	15.0	-3.92	-3.92	-3.92	-3.71	6.13	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0013	.0012	.427
15	15.0	-3.92	-3.92	-3.92	-3.71	9.13	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
16	15.0	-3.92	-3.92	-3.92	-3.71	2.46	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
17	15.0	-3.92	-3.92	-3.92	-3.71	3.46	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
18	15.0	-3.92	-3.92	-3.92	-3.71	6.46	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
19	15.0	-3.92	-3.92	-3.92	-3.71	9.46	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
20	15.0	-3.92	-3.92	-3.92	-3.71	2.86	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
21	15.0	-3.92	-3.92	-3.92	-3.71	3.86	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
22	15.0	-3.92	-3.92	-3.92	-3.71	6.86	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
23	15.0	-3.92	-3.92	-3.92	-3.71	9.86	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
24	15.0	-3.92	-3.92	-3.92	-3.71	2.26	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
25	15.0	-3.92	-3.92	-3.92	-3.71	3.26	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
26	15.0	-3.92	-3.92	-3.92	-3.71	6.26	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
27	15.0	-3.92	-3.92	-3.92	-3.71	9.26	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
28	15.0	-3.92	-3.92	-3.92	-3.71	2.66	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
29	15.0	-3.92	-3.92	-3.92	-3.71	3.66	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
30	15.0	-3.92	-3.92	-3.92	-3.71	6.66	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
31	15.0	-3.92	-3.92	-3.92	-3.71	9.66	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
32	15.0	-3.92	-3.92	-3.92	-3.71	2.06	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
33	15.0	-3.92	-3.92	-3.92	-3.71	3.06	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
34	15.0	-3.92	-3.92	-3.92	-3.71	6.06	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
35	15.0	-3.92	-3.92	-3.92	-3.71	9.06	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
36	15.0	-3.92	-3.92	-3.92	-3.71	1.83	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
37	15.0	-3.92	-3.92	-3.92	-3.71	2.83	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
38	15.0	-3.92	-3.92	-3.92	-3.71	5.83	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
39	15.0	-3.92	-3.92	-3.92	-3.71	8.83	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
40	15.0	-3.92	-3.92	-3.92	-3.71	2.23	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
41	15.0	-3.92	-3.92	-3.92	-3.71	3.23	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
42	15.0	-3.92	-3.92	-3.92	-3.71	6.23	-4.60	[illegible]	.0021	.0020	[illegible]	10.32	.75	.55	.0019	.0011	.427
43	15.0	-3.35	-3.27	-7.35	-7.02	5.70	-9.26	1.537E-05	.085	.803	4.48E-09	9.03	.71	.56	.604	.804	.905

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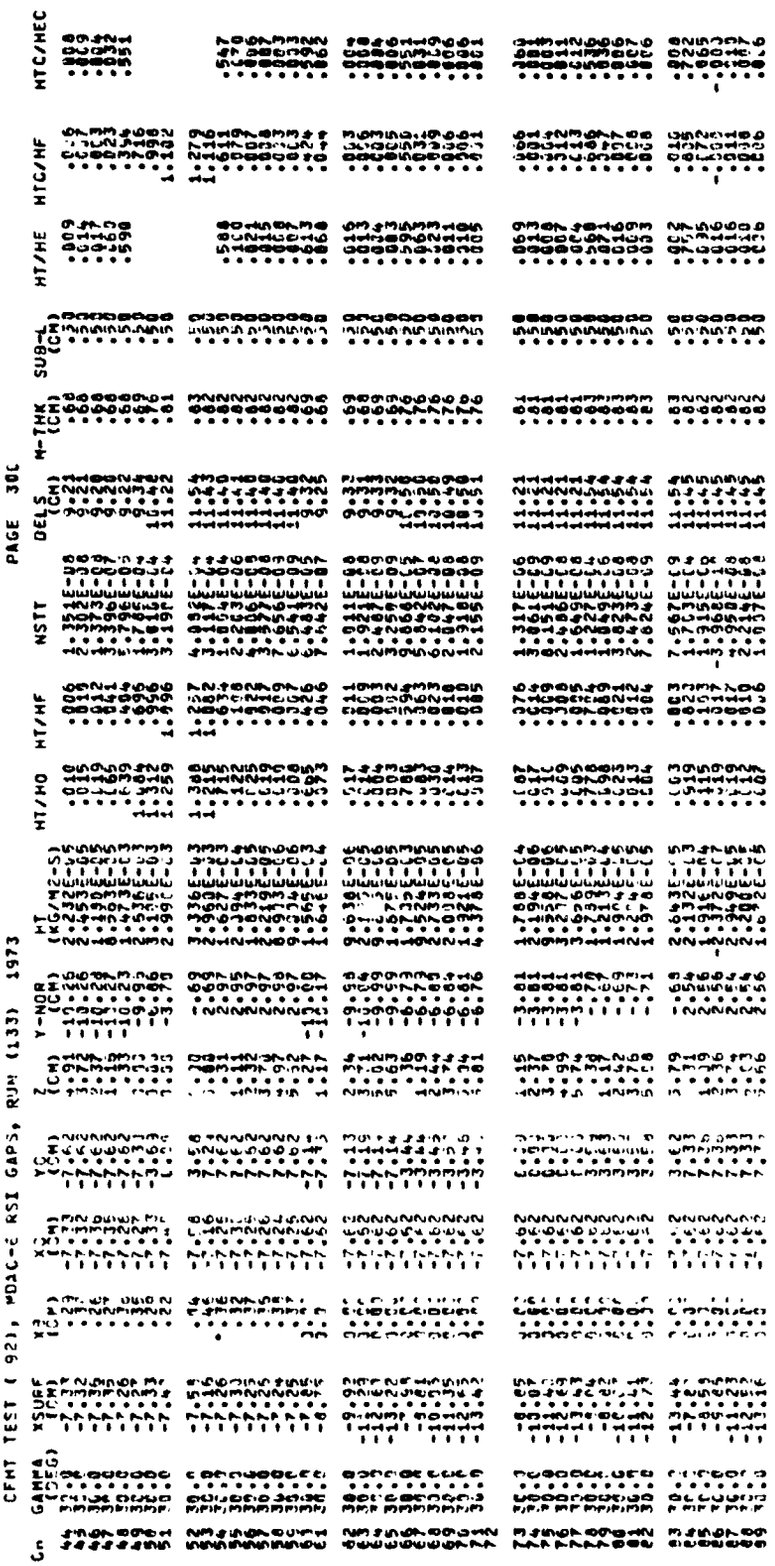


CFHT TEST (92), MDAC-E PSI GAPS, RUN (133) 1973 PAGE 299

MACH = 10.298 TT = 9.96+E+02(K)
RX E06 = 3.351E-01 PI = 5.168E+06(N/M2)
RL E06 = 8.379E-02 T1 = 4.691E+01(K)
RE/METER = 3.299E+06 P1 = 3.826E+01(N/M2)
HO = 2.619E+08(N/M2-K) (RHO V)1 = 1.032E+01(KG/M2-S)
TW = 300.44 (K) GAP = .711 (CM)
STEP = 1.000(CM) CONF =IN-L

TAN/TT =0.395 FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE X8 = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.) OR 90 DEG.) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CR	GAMMA (DEG)	XSURF (CM)	X8 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	20.0	0.00	7.62	0.00	-7.62	5.78	-6.60	1.937E-05	.406	.004	5.967E-09	10.56	.77	.50	.004	.005	.004
10	30.0	0.00	7.62	0.00	-7.62	5.03	-6.60	1.736E-05	.009	.007	1.123E-08	10.56	.77	.50	.006	.008	.008
11	39.5	0.00	7.62	0.00	-7.62	3.74	-6.60	2.645E-05	.016	.012	3.117E-08	10.56	.77	.50	.011	.009	.007
12	30.0	0.00	7.62	0.00	-7.62	2.36	-6.60	-5.342E-07	.016	.012	-6.463E-10	10.56	.77	.50	.011	-.008	-.008
13	30.0	0.00	7.62	0.00	-7.62	1.14	-6.60	2.076E-04	.129	.092	1.866E-06	10.56	.77	.50	.088	.068	.057
14	30.0	0.00	7.62	0.00	-7.62	.33	-6.60	2.144E-03	.927	.713	1.588E-04	10.56	.77	.50	.628	.638	.593
15	30.0	0.00	7.62	0.00	-7.29	0.00	-6.32	3.564E-03	1.495	1.167	4.048E-04	10.64	.77	.50		1.177	
16	30.0	0.00	7.62	0.00	-3.63	0.00	-3.15	2.938E-03	1.248	1.092	3.124E-04	11.31	.81	.50		1.095	
17	30.0	0.00	7.62	0.00	0.00	0.00	0.00	2.742E-03	1.166	1.061	2.934E-04	11.56	.83	.50		1.056	
18	30.0	0.00	7.62	0.00	3.54	0.00	3.07	2.746E-03	1.166	1.052	2.719E-04	11.39	.82	.50		1.044	
19	30.0	0.00	7.62	0.00	7.27	0.00	6.29	2.099E-03	.994	.741	1.515E-04	10.79	.78	.50		.729	
20	30.0	0.00	7.62	0.00	7.62	.41	6.61	6.535E-06	.003	.002	1.428E-09	10.71	.78	.50	.003	.002	.003
21	30.0	0.00	7.62	0.00	7.62	1.17	6.68	1.362E-04	.075	.061	8.942E-07	10.71	.78	.50	.063	.047	.064
22	30.0	0.00	7.62	0.00	7.62	2.39	6.60	6.244E-07	.017	.014	8.264E-10	10.71	.78	.50	.619	.000	.000
23	30.0	0.00	7.62	0.00	7.62	3.70	6.60	5.344E-05	.027	.022	1.141E-07	10.71	.78	.50	.038	.016	.022
24	30.0	0.00	7.62	0.00	7.62	5.07	6.60	4.715E-05	.015	.012	5.402E-08	10.71	.78	.50	.016	.008	.012
25	30.0	0.00	7.62	0.00	7.62	5.73	6.60	5.658E-05	.014	.011	6.131E-08	10.71	.78	.50	.015	.009	.012
26	30.0	-3.67	3.95	-3.67	-7.62	5.70	-8.48	1.268E-05	.006	.004	4.826E-09	9.93	.72	.50	.004	.004	.005
27	30.0	-3.67	3.82	-3.67	-7.62	5.04	-8.50	1.559E-05	.008	.006	8.741E-09	9.93	.72	.50	.006	.005	.007
28	30.0	-3.67	3.86	-3.67	-7.62	3.72	-8.48	1.973E-05	.013	.009	1.762E-08	9.93	.72	.50	.009	.008	.011
29	30.0	-3.67	3.81	-3.67	-7.62	2.44	-8.51	-1.941E-05	.009	.006	-1.135E-08	9.93	.72	.50	.006	-.006	-.008
30	30.0	-3.67	3.73	-3.67	-7.62	1.16	-8.51	1.369E-04	.067	.060	8.060E-07	9.92	.72	.50	.059	.048	.060
31	30.0	-3.67	3.75	-3.67	-7.62	.33	-8.53	2.184E-03	.946	.652	1.385E-04	9.91	.72	.50	.636	.641	.601
32	30.0	-3.79	3.93	-3.79	-7.24	1.22	-8.17	3.535E-03	1.477	1.046	3.619E-04	10.05	.73	.50		1.065	
33	30.0	-3.92	3.92	-3.92	-7.41	0.00	-8.17	2.876E-03	1.216	.999	2.798E-04	10.93	.79	.50		1.007	
34	30.0	-3.92	3.67	-3.92	-5.03	0.00	-1.98	2.917E-03	1.234	1.106	3.142E-04	11.45	.82	.50		1.117	
35	30.0	-3.69	3.91	-3.69	3.69	0.00	1.17	3.020E-03	1.276	1.151	3.363E-04	11.54	.83	.50		1.153	
36	30.0	-3.79	3.88	-3.79	3.23	0.00	4.43	2.534E-03	1.047	.904	2.238E-04	11.19	.81	.50		.926	
37	30.0	-3.79	3.88	-3.79	7.62	.37	4.70	1.257E-03	.464	.398	4.897E-05	11.14	.80	.50	.443	.384	.415
38	30.0	-3.79	3.88	-3.79	7.62	1.15	4.73	1.605E-04	.181	.807	1.422E-06	11.14	.80	.50	.097	.064	.066
39	30.0	-3.79	3.88	-3.79	7.62	2.35	4.73	1.247E-05	.026	.022	2.326E-08	11.14	.80	.50	.025	.016	.015
40	30.0	-3.79	3.88	-3.79	7.62	3.62	4.73	3.636E-05	.119	.816	5.671E-08	11.14	.80	.50	.010	.013	.013
41	30.0	-3.67	3.95	-3.67	7.62	5.04	4.77	1.162E-05	.059	.027	8.254E-09	11.13	.80	.50	.008	.004	.005
42	30.0	-3.62	4.01	-3.62	7.62	5.58	4.79	2.417E-05	.109	.067	1.737E-08	11.13	.80	.50	.038	.009	.009
43	30.0	-7.35	.27	-7.35	-7.62	5.70	-13.27	1.849E-05	.085	.063	5.927E-09	9.20	.68	.50	.035	.005	.007



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CFMT TEST (92), PUAC-E RSI GAPS, RUN (149) 1973

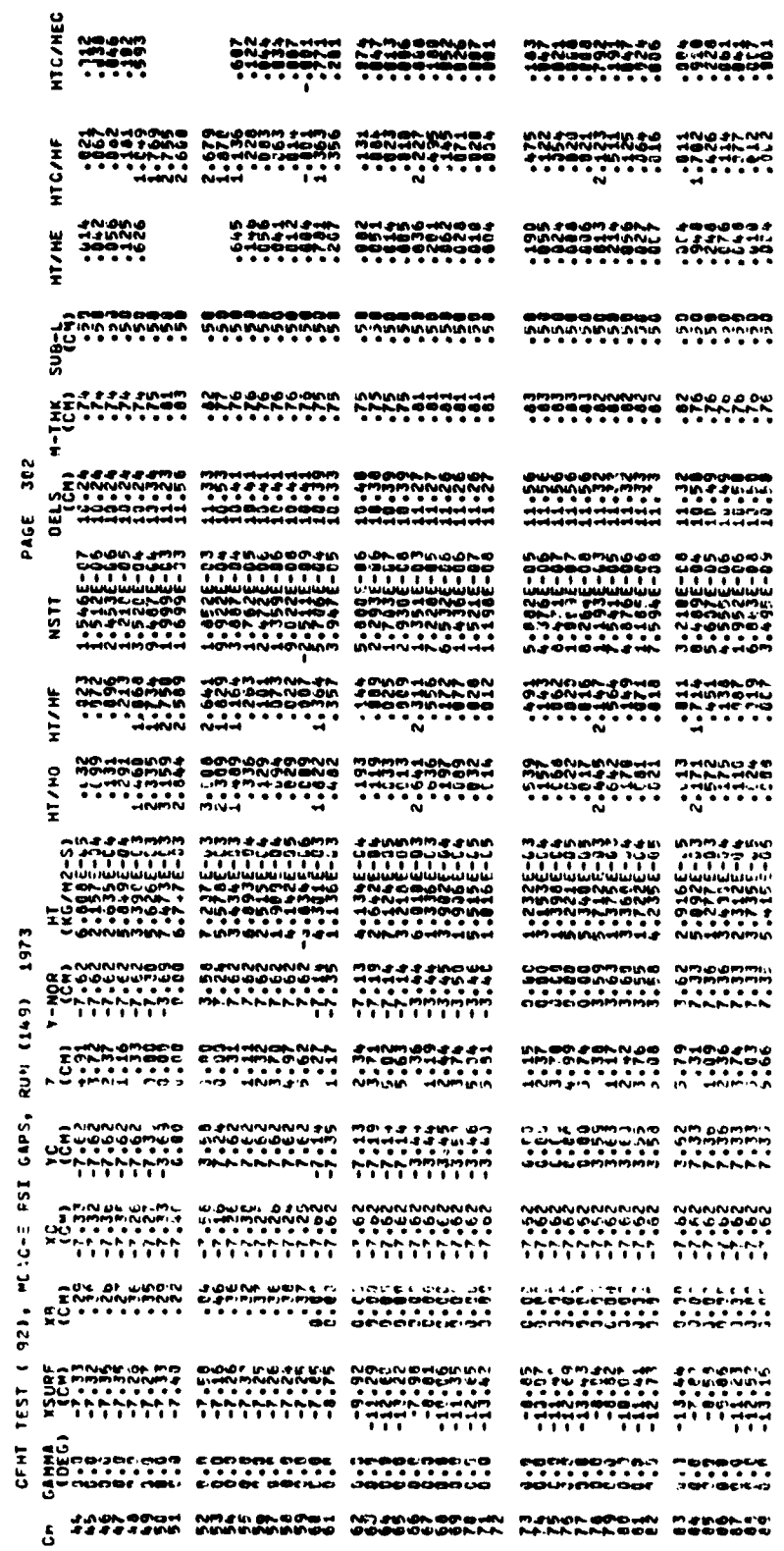
MACH = 14.296 TT = 9.981E+02(K)
RE E*6 = 14.347E-01 PI = 5.178E (N/M2)
RE/FEET = 0.369E+06 T1 = 4.693E (K)
MU = 0.299E-06 (KG/M-S) P1 = 9.844E+01(N/M2)
TIM = 20.6 (SEC) (RHO V)1 = 11.933E+01(KG/M2-S)
STEP = 254(CY) GAP = .711 (CM)
CONF =IN-L

TAW/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE
(FLOW DIRECTION)
(0.) ORIGIN DEG.)
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HE, GAP HEATING (CONDUCTION CORRECTED HT/HE
HTC/HEC, CONDUCTION CORRECTED HT/HE

TILE COORDINATES(GAMMA=0.0
XB = X-COOR. FROM TILE LE
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HI (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	0.000	7.662	7.662	-7.662	-7.662	2.36	-7.662	2.525E-05	.614	.818	2.464E+00	10.24	.74	.558	.818	.818	.807
10	0.000	7.662	7.662	-7.662	-7.662	5.33	-7.662	2.597E-05	.617	.818	3.543E+00	10.24	.74	.558	.818	.818	.812
11	0.000	7.662	7.662	-7.662	-7.662	8.34	-7.662	2.694E-05	.623	.819	6.523E+00	10.24	.74	.558	.819	.819	.812
12	0.000	7.662	7.662	-7.662	-7.662	11.34	-7.662	2.794E-05	.629	.820	1.044E+01	10.24	.74	.558	.820	.820	.813
13	0.000	7.662	7.662	-7.662	-7.662	14.35	-7.662	2.894E-05	.635	.821	1.436E+01	10.24	.74	.558	.821	.821	.814
14	0.000	7.662	7.662	-7.662	-7.662	17.36	-7.662	2.994E-05	.641	.822	1.828E+01	10.24	.74	.558	.822	.822	.815
15	0.000	7.662	7.662	-7.662	-7.662	20.37	-7.662	3.093E-05	.647	.823	2.220E+01	10.24	.74	.558	.823	.823	.816
16	0.000	7.662	7.662	-7.662	-7.662	23.38	-7.662	3.193E-05	.653	.824	2.612E+01	10.24	.74	.558	.824	.824	.817
17	0.000	7.662	7.662	-7.662	-7.662	26.39	-7.662	3.293E-05	.659	.825	3.004E+01	10.24	.74	.558	.825	.825	.818
18	0.000	7.662	7.662	-7.662	-7.662	29.39	-7.662	3.393E-05	.665	.826	3.396E+01	10.24	.74	.558	.826	.826	.819
19	0.000	7.662	7.662	-7.662	-7.662	32.40	-7.662	3.493E-05	.671	.827	3.788E+01	10.24	.74	.558	.827	.827	.820
20	0.000	7.662	7.662	-7.662	-7.662	35.41	-7.662	3.593E-05	.677	.828	4.180E+01	10.24	.74	.558	.828	.828	.821
21	0.000	7.662	7.662	-7.662	-7.662	38.42	-7.662	3.693E-05	.683	.829	4.572E+01	10.24	.74	.558	.829	.829	.822
22	0.000	7.662	7.662	-7.662	-7.662	41.43	-7.662	3.793E-05	.689	.830	4.964E+01	10.24	.74	.558	.830	.830	.823
23	0.000	7.662	7.662	-7.662	-7.662	44.43	-7.662	3.893E-05	.695	.831	5.356E+01	10.24	.74	.558	.831	.831	.824

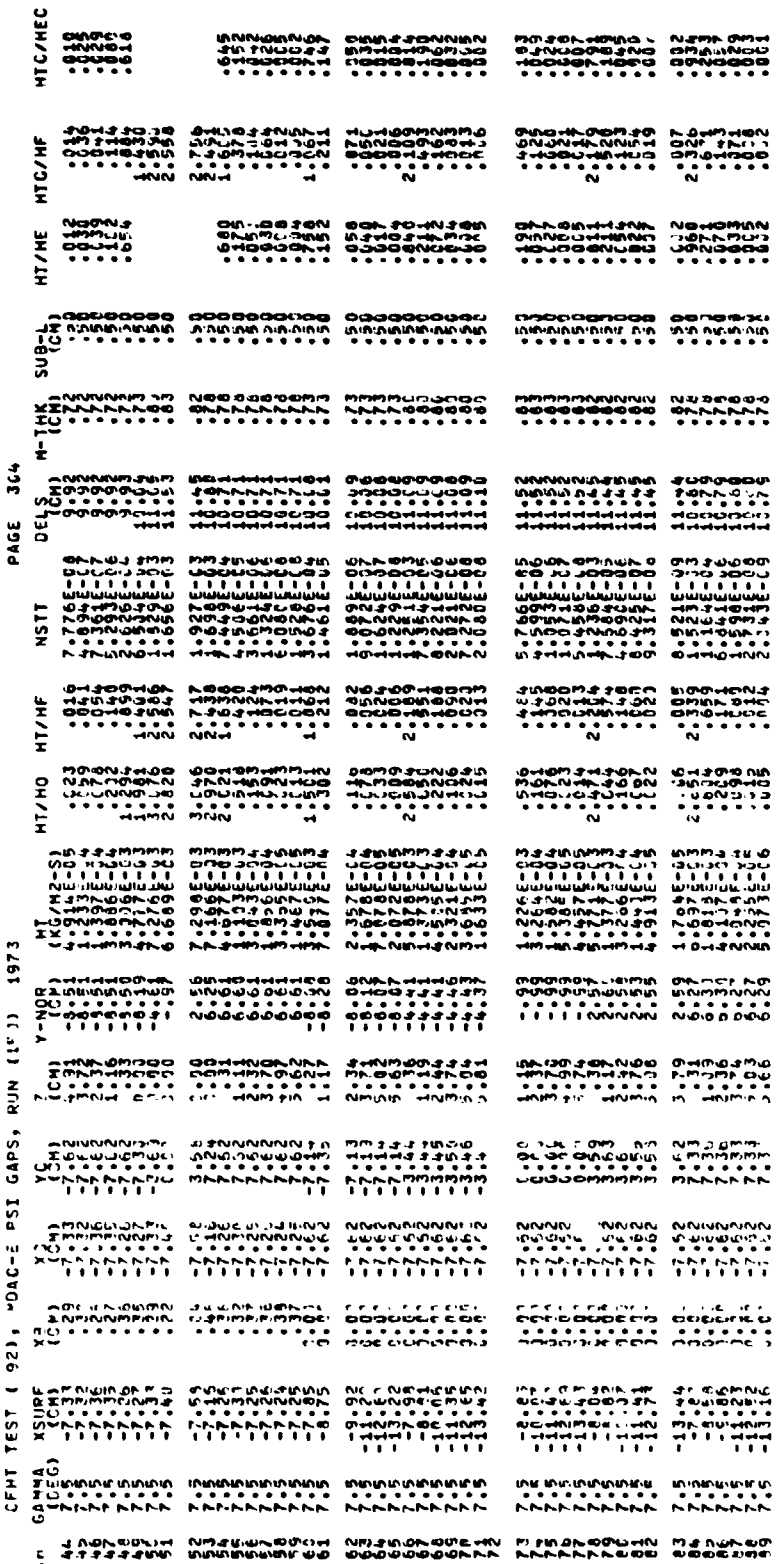


CFHT TEST (92), MDAC-E RSI GAPS, RUN (159) 1973 PAGE 303

MACH = 10.291 TT = 9.973E+02(K)
RX E06 = 3.359E-01 PI = 5.179E+03(N/M2)
RL E06 = 8.384E-12 TI = 4.695E+01(K)
RE/METER = 3.771E+06 PI = 9.047E+01(N/M2)
HO = 2.619E+08(W/M2-K) (RHO V)1 = 1.034E+01(KG/M2-S)
TW = 301.3 (K) GAP = .711 (CM)
STEP = .254(CM) CONF =IN-L

TAN/TT =0.995 FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE X9 = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(=) OR 90 DEG) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF,GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CM	GAMMA (DEG)	XSURF (CM)	X9 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	7.5	0.01	7.62	0.00	-7.62	5.70	-7.55	2.049E-05	.013	.009	1.875E-08	10.26	.75	.50	.007	.006	.006
10	7.5	0.00	7.62	0.00	-7.62	5.03	-7.55	3.391E-05	.019	.014	4.596E-08	10.26	.75	.50	.010	.014	.007
11	7.5	0.00	7.62	0.00	-7.62	3.74	-7.55	2.042E-05	.018	.013	3.587E-08	10.26	.75	.50	.009	.009	.006
12	7.5	0.00	7.62	0.00	-7.62	2.36	-7.55	3.817E-06	.024	.017	6.397E-09	10.26	.75	.50	.012	.001	.001
13	7.5	0.00	7.62	0.00	-7.62	1.14	-7.55	4.531E-04	.224	.164	7.245E-06	10.26	.75	.50	.117	.141	.098
14	7.5	0.00	7.62	0.00	-7.62	.33	-7.55	3.421E-03	1.468	1.077	3.581E-04	10.26	.75	.50	.766	1.062	.748
15	7.5	0.00	7.62	0.00	-7.29	0.00	-7.23	4.552E-03	1.918	1.429	6.322E-04	10.37	.75	.50		1.436	
16	7.5	0.01	7.62	0.01	-3.68	0.00	-3.60	3.127E-03	1.322	1.154	3.587E-04	11.24	.81	.50		1.155	
17	7.5	0.01	7.62	0.01	0.00	0.00	0.00	2.487E-03	1.276	1.161	3.372E-04	11.56	.83	.50		1.151	
18	7.5	0.01	7.62	0.00	3.59	0.00	3.51	2.479E-03	1.336	1.143	3.325E-04	11.34	.82	.50		1.149	
19	7.5	0.00	7.62	0.00	7.27	0.03	7.20	2.834E-03	1.244	.987	2.718E-04	10.54	.77	.50		.952	
20	7.5	0.01	7.62	0.00	7.62	.41	7.55	9.689E-06	.004	.003	2.963E-09	10.43	.76	.50	.003	.003	.003
21	7.5	0.01	7.62	0.01	7.62	1.17	7.55	1.583E-04	.086	.067	1.837E-06	10.43	.76	.50	.069	.052	.055
22	7.5	0.01	7.62	0.00	7.62	2.39	7.55	4.439E-05	.037	.029	1.244E-07	10.43	.76	.50	.038	.015	.015
23	7.5	0.01	7.62	0.00	7.62	3.72	7.55	3.735E-05	.022	.017	6.154E-08	10.43	.76	.50	.017	.012	.013
24	7.5	0.00	7.62	0.00	7.62	5.07	7.55	5.177E-05	.019	.015	7.522E-08	10.43	.76	.50	.015	.017	.018
25	7.5	0.00	7.62	0.00	7.62	6.73	7.55	4.746E-05	.013	.010	4.755E-08	10.43	.76	.50	.011	.016	.017
26	7.5	-3.76	3.86	-3.76	-7.62	5.78	-8.05	1.785E-06	.005	.004	6.527E-10	10.09	.74	.50	.003	.001	.000
27	7.5	-3.80	3.82	-3.80	-7.62	5.44	-8.05	2.318E-05	.018	.013	3.594E-08	10.49	.73	.50	.014	.009	.007
28	7.5	-3.76	3.86	-3.76	-7.62	3.72	-8.05	4.258E-05	.025	.018	7.452E-08	10.09	.74	.50	.015	.013	.015
29	7.5	-3.81	3.81	-3.81	-7.62	2.44	-8.05	3.827E-05	.009	.006	1.846E-08	10.09	.73	.50	.005	.007	.007
30	7.5	-3.81	3.79	-3.83	-7.62	1.16	-8.05	1.041E-04	.158	.112	3.323E-06	10.09	.73	.50	.092	.072	.072
31	7.5	-3.87	3.75	-3.87	7.62	.33	-8.06	1.985E-03	1.271	.905	2.609E-04	10.09	.73	.50	.744	.634	.730
32	7.5	-3.79	3.83	-3.79	-7.24	3.30	-7.67	4.106E-03	1.729	1.245	4.971E-04	10.22	.74	.50		1.267	
33	7.5	-3.92	3.74	-3.92	-3.71	3.08	-4.10	3.610E-03	1.527	1.305	4.581E-04	11.14	.80	.50		1.307	
34	7.5	-3.93	3.67	-3.93	0.00	3.00	-.52	3.443E-03	1.457	1.321	4.422E-04	11.55	.83	.50		1.321	
35	7.5	-3.68	3.93	-3.68	3.59	3.00	3.55	3.568E-03	1.510	1.336	4.635E-04	11.39	.82	.50		1.337	
36	7.5	-3.74	3.86	-3.74	7.26	3.00	6.73	3.424E-03	1.426	1.151	3.831E-04	10.66	.76	.50		1.170	
37	7.5	-3.79	3.83	-3.79	7.62	.37	7.06	1.504E-04	.656	.523	7.639E-05	10.58	.77	.50	.468	.547	.434
38	7.5	-3.74	3.88	-3.74	7.62	1.11	7.07	9.175E-05	.073	.058	5.188E-07	10.58	.77	.50	.051	.031	.026
39	7.5	-3.82	3.82	-3.82	7.62	2.24	7.06	3.504E-05	.037	.030	1.816E-07	10.58	.77	.50	.026	.012	.010
40	7.5	-3.82	3.82	-3.82	7.62	3.62	7.06	7.360E-05	.037	.029	2.161E-07	10.58	.77	.50	.026	.025	.021
41	7.5	-3.87	3.95	-3.87	7.62	5.44	7.08	2.827E-05	.019	.015	4.173E-08	10.58	.77	.50	.013	.010	.008
42	7.5	-3.62	4.00	-3.62	7.62	5.98	7.09	2.387E-05	.010	.008	1.937E-08	10.58	.77	.50	.007	.006	.007
43	7.5	-3.55	4.07	-3.55	-7.62	5.70	-8.51	3.858E-05	.016	.011	4.256E-08	9.92	.72	.50	.008	.011	.008



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OF POOR QUALITY

CFHT TEST (92), "DAC-E RSI GAPS, RUN (151) 1973 PAGE 305

MACH	= 11.290	TT	= 9.969E+02(K)
RX E06	= 3.356E-01	PI	= 5.179E+06(N/M2)
RL E06	= 8.369E-02	TI	= 4.633E+01(K)
RE/METER	= 3.3?3E+06	PI	= 9.847E+01(N/M2)
HO	= 2.513E+00(W/M2-K)	(RHO V)1	= 1.034E+01(KG/M2-S)
TW	= 300.0 (K)	GAP	= .711 (CM)
STEP	= .254(CM)	CONF	=IN-L

TAN/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)

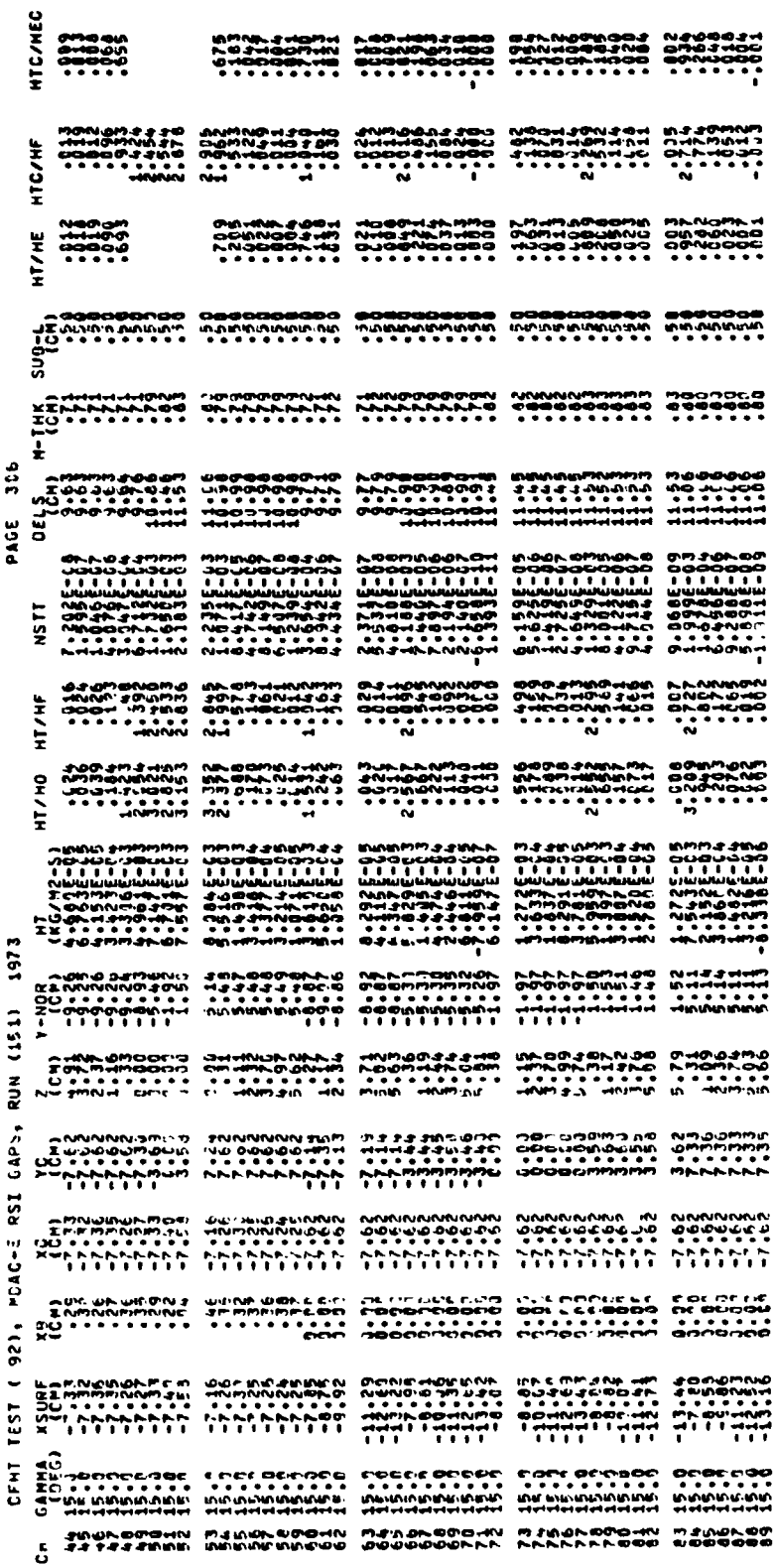
TILE COORDINATES(GAMMA=0.C
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	15.0	0.00	7.62	0.00	-7.62	5.70	-7.36	2.532E-05	.014	.011	2.655E-08	10.32	.75	.50	.006	.018	.004
10	15.0	0.00	7.62	0.00	-7.62	5.03	-7.36	1.331E-05	.010	.008	9.704E-09	10.32	.75	.50	.004	.004	.002
11	15.0	0.00	7.62	0.00	-7.62	3.74	-7.36	2.132E-05	.016	.012	2.435E-08	10.32	.75	.50	.006	.007	.003
12	15.0	0.00	7.62	0.00	-7.62	2.36	-7.36	4.941E-06	.030	.022	1.051E-08	10.32	.75	.50	.012	.042	.041
13	15.0	0.00	7.62	0.00	-7.62	1.14	-7.36	8.357E-04	.387	.287	2.329E-05	10.32	.72	.50	.152	.262	.136
14	15.0	0.00	7.62	0.00	-7.62	.33	-7.36	4.837E-03	2.068	1.531	7.198E-04	10.32	.75	.50	.812	1.516	.788
15	15.0	0.00	7.62	0.00	-7.29	0.00	-7.04	6.046E-03	2.547	1.915	1.125E-03	10.42	.76	.50		1.925	
16	15.0	0.00	7.62	0.00	-3.63	0.00	-3.51	3.013E-03	1.274	1.114	3.261E-04	11.26	.81	.50		1.112	
17	15.0	0.00	7.62	0.00	0.00	0.00	0.02	2.967E-03	1.267	1.153	3.326E-04	11.56	.83	.50		1.143	
18	15.0	0.00	7.62	0.00	3.54	0.00	3.42	2.917E-03	1.282	1.129	3.199E-04	11.35	.82	.50		1.047	
19	15.0	0.00	7.62	0.00	7.27	0.00	7.02	2.576E-03	1.142	.912	2.282E-04	10.59	.77	.50		.871	
20																	
21	15.0	0.00	7.62	0.00	7.62	1.17	7.36	1.348E-04	.076	.060	7.833E-07	10.49	.76	.50	.066	.045	.052
22	15.0	0.00	7.62	0.00	7.62	2.39	7.36	2.348E-05	.031	.025	7.060E-08	10.49	.76	.50	.027	.013	.011
23	15.0	0.00	7.62	0.00	7.62	3.70	7.36	3.738E-05	.023	.018	6.564E-08	10.49	.76	.50	.020	.012	.014
24	15.0	0.00	7.62	0.00	7.62	5.07	7.36	4.626E-05	.019	.015	6.606E-08	10.49	.76	.50	.017	.011	.010
25	15.0	0.00	7.62	0.00	7.62	5.73	7.36	6.432E-05	.023	.018	1.137E-07	10.49	.76	.50	.020	.024	.012
26	15.0	-3.76	3.86	-3.76	-7.62	5.70	-8.33	2.320E-05	.013	.009	2.106E-08	9.99	.73	.50	.006	.007	.004
27	15.0	-3.80	3.82	-3.80	-7.62	5.04	-8.34	4.496E-05	.024	.017	7.344E-08	9.98	.73	.50	.011	-.013	-.008
28	15.0	-3.76	3.86	-3.76	-7.62	3.72	-8.33	1.560E-05	.014	.010	1.534E-08	9.99	.73	.50	.007	-.005	-.003
29	15.0	-3.81	3.81	-3.81	-7.62	2.44	-8.35	-1.097E-05	.021	.015	-1.561E-08	9.98	.73	.50	.010	-.033	-.022
30	15.0	-3.83	3.79	-3.83	-7.62	1.16	-8.35	5.448E-04	.261	.182	3.662E-06	9.98	.73	.50	.119	.162	.106
31	15.0	-3.87	3.75	-3.87	-7.62	.33	-8.36	4.167E-03	1.780	1.246	5.047E-04	9.98	.73	.50	.816	1.235	.779
32	15.0	-3.79	3.97	-3.79	-7.24	0.00	-7.98	5.234E-03	2.182	1.562	7.946E-04	10.12	.74	.50		1.586	
33	15.0	-3.92	3.70	-3.92	-3.71	0.00	-4.60	3.443E-03	1.457	1.225	4.101E-04	11.66	.80	.50		1.226	
34	15.0	-3.95	3.67	-3.95	0.00	0.00	-1.02	3.458E-03	1.463	1.321	4.440E-04	11.52	.83	.50		1.322	
35	15.0	-3.89	3.73	-3.89	3.59	0.00	2.46	3.539E-03	1.522	1.359	4.753E-04	11.46	.82	.50		1.360	
36	15.0	-3.74	3.88	-3.74	7.23	0.00	6.06	3.286E-03	1.369	1.130	3.607E-04	10.85	.79	.50		1.146	
37	15.0	-3.79	3.83	-3.79	7.62	.37	6.38	1.323E-03	.570	.466	5.906E-05	10.77	.75	.50	.417	.451	.393
38	15.0	-3.74	3.88	-3.74	7.62	1.15	6.39	1.172E-04	.081	.066	7.376E-07	10.76	.78	.50	.059	.038	.033
39	15.0	-3.80	3.82	-3.80	7.62	3.38	6.39	5.430E-05	.040	.033	1.276E-07	10.77	.78	.50	.029	.014	.012
40	15.0	-3.83	3.82	-3.83	7.62	3.62	6.39	5.055E-05	.028	.023	1.144E-07	10.77	.78	.50	.021	.017	.015
41	15.0	-3.67	3.95	-3.67	7.62	5.04	6.41	2.314E-05	.018	.015	3.333E-08	10.76	.78	.50	.013	.008	.007
42	15.0	-3.62	4.00	-3.62	7.52	5.68	6.42	3.972E-05	.019	.016	6.135E-08	10.78	.78	.50	.014	.014	.012
43	15.0	-7.35	.27	-7.35	-7.62	5.70	-9.26	3.874E-05	.018	.012	4.456E-08	9.63	.71	.50	.009	.011	.008

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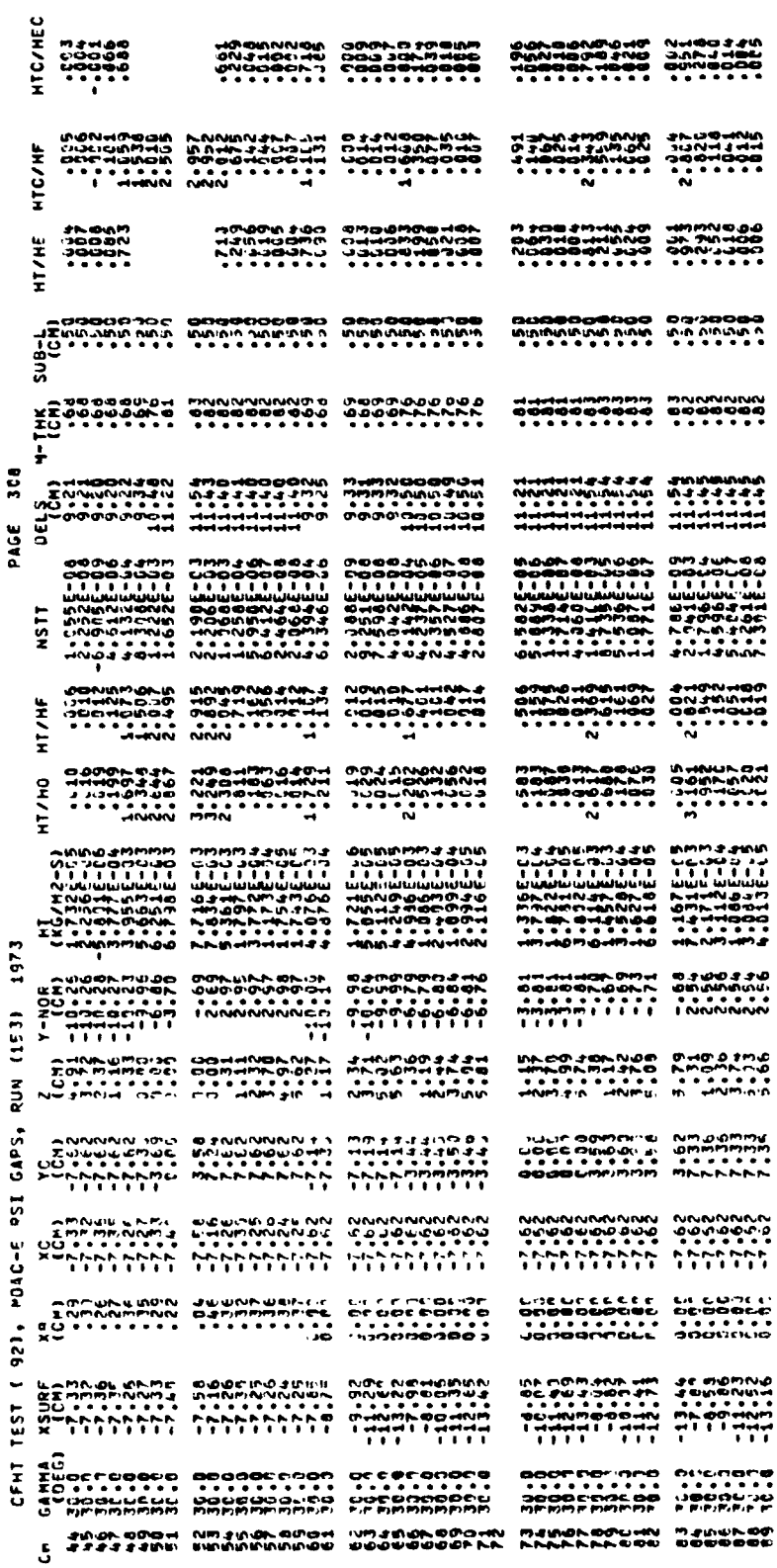
CFHT TEST (92), MDAC-E RSI GAPS, RUN (153) 1973 PAGE 387

MACH = 10.290 TT = 9.992E+02(K)
RX E06 = 3.339E-01 PI = 5.177E+06(N/M2)
RL E06 = 8.344E-02 TI = 4.705E+01(K)
RE/METER = 3.287E+06 PI = 9.460E+01(N/M2)
HO = 2.619E+08(W/M2-K) (RHO V)1 = 1.032E-01(KG/M2-S)
TW = 301.8 (K) GAP = .711 (CM)
STEP = .254(CM) CONF =IN-L

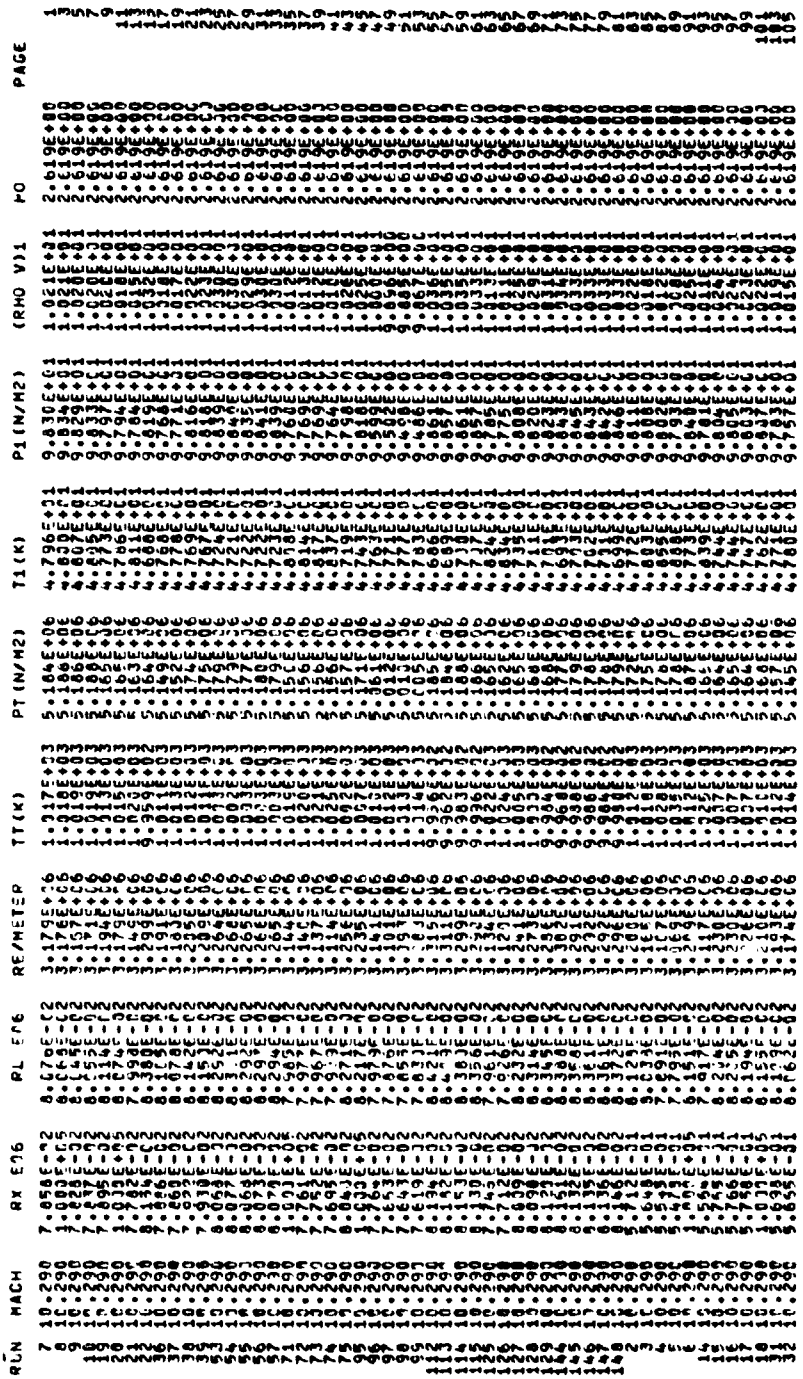
TAN/TT =0.895 FOR HT/HO TILE COORDINATES(GAMMA=0.)
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 OR 90 DEG.) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED

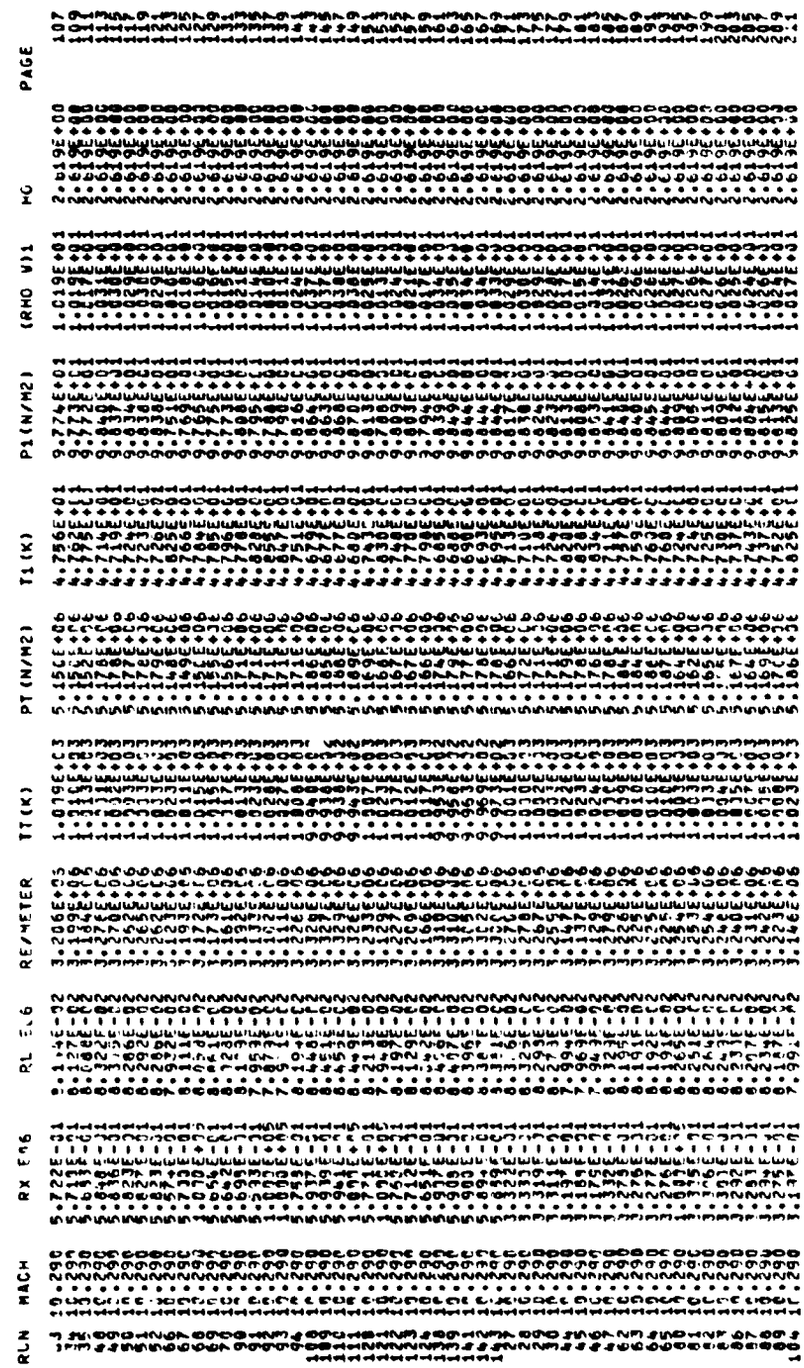
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF,GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

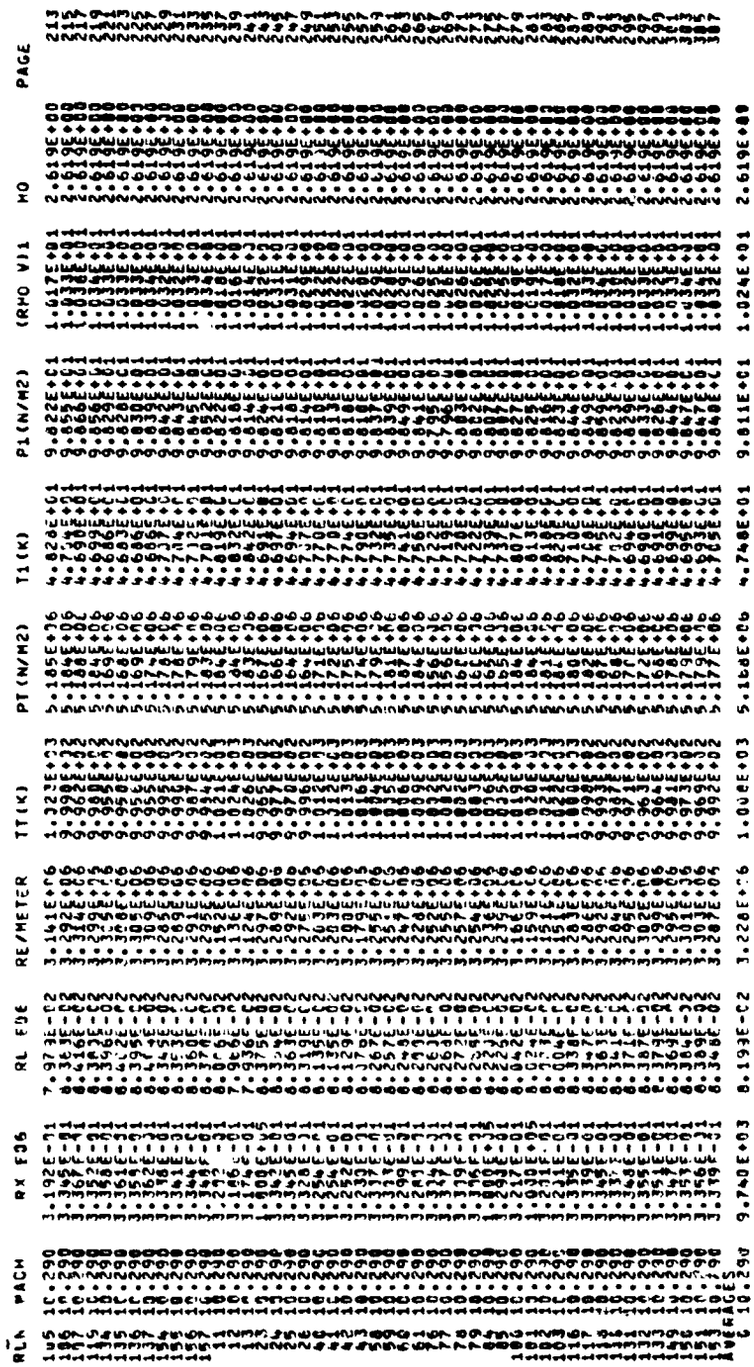
CP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
9	30.0	0.00	7.62	0.00	-7.62	2.76	-6.60	4.169E-05	.022	.017	6.779E-08	10.56	.77	.38	.007	.014	.005
10	30.0	0.00	7.62	0.00	-7.62	3.05	-6.60	6.624E-05	.035	.026	1.131E-07	10.56	.77	.38	.011	.023	.009
11	30.0	0.00	7.62	0.00	-7.62	3.74	-6.60	7.191E-05	.037	.028	1.984E-07	10.56	.77	.38	.011	.023	.009
12	30.0	0.00	7.62	0.00	-7.62	2.36	-6.63	1.778E-04	.105	.081	1.403E-06	10.56	.77	.38	.033	.068	.027
13	30.0	0.00	7.62	0.00	-7.62	1.14	-6.63	4.504E-04	.239	.183	7.570E-06	10.56	.77	.38	.075	.154	.061
14	30.0	0.00	7.62	0.00	-7.62	.37	-6.63	6.931E-04	.368	.282	1.330E-05	10.56	.77	.38	.089	.181	.072
15	30.0	0.00	7.62	0.00	-7.23	0.00	-6.63	7.022E-04	.373	.287	1.858E-05	10.64	.77	.38		2.614	.072
16	30.0	0.00	7.62	0.00	-3.63	0.00	-3.63	3.263E-04	.173	.133	8.667E-06	11.31	.81	.38		1.178	.033
17	30.0	0.00	7.62	0.00	0.00	0.00	0.00	2.029E-04	.108	.083	5.390E-06	11.39	.82	.38		.732	.021
18	30.0	0.00	7.62	0.00	3.64	0.00	3.63	3.207E-04	.170	.131	8.519E-06	11.39	.82	.38		1.157	.033
19	30.0	0.00	7.62	0.00	7.27	0.00	6.29	2.408E-04	.128	.098	6.398E-06	10.79	.78	.38		.869	.025
20	30.0	0.00	7.62	0.00	7.62	.24	6.60	1.517E-04	.081	.062	4.017E-06	10.71	.78	.38	.002	.545	.002
21	30.0	0.00	7.62	0.00	7.62	1.17	6.60	1.022E-04	.054	.042	4.958E-07	10.71	.78	.38	.002	.369	.002
22	30.0	0.00	7.62	0.00	7.62	2.39	6.60	1.248E-05	.007	.005	2.317E-08	10.71	.78	.38	.024	.084	.006
23	30.0	0.00	7.62	0.00	7.62	3.70	6.60	3.997E-06	.002	.002	7.196E-08	10.71	.78	.38	.007	.027	.002
24	30.0	0.00	7.62	0.00	7.62	5.01	6.60	2.737E-06	.001	.001	6.678E-08	10.71	.78	.38	.005	.018	.001
25	30.0	0.00	7.62	0.00	7.62	6.33	6.60	1.970E-06	.001	.001	9.113E-08	10.71	.78	.38	.004	.013	.001
26	30.0	-13.06	3.86	-3.76	-7.62	5.78	-8.68	1.218E-06	.001	.000	1.269E-08	9.93	.72	.38	.004	.008	.001
27	30.0	-13.06	3.86	-3.76	-7.62	5.04	-8.53	1.143E-06	.000	.000	1.963E-08	9.93	.72	.38	.005	.008	.001
28	30.0	-13.06	3.86	-3.76	-7.62	3.72	-8.68	3.876E-06	.002	.001	6.170E-08	9.93	.72	.38	.006	.011	.001
29	30.0	-13.07	3.86	-3.81	-7.62	2.44	-8.53	4.019E-06	.002	.001	1.241E-07	9.92	.72	.38	.010	.013	.001
30	30.0	-13.07	3.79	-3.83	-7.62	1.16	-8.53	1.126E-03	.593	.349	3.811E-05	9.92	.72	.38	.179	1.193	.143
31	30.0	-13.07	3.79	-3.87	-7.62	.33	-8.53	5.793E-03	2.468	1.711	9.651E-04	9.91	.72	.38	.876	1.758	.844
32	30.0	-13.79	3.83	-3.79	-7.24	0.00	-8.17	6.750E-03	2.846	1.996	1.311E-03	10.45	.73	.38		2.023	
33	30.0	-13.92	3.79	-3.92	-7.24	0.00	-8.17	3.164E-03	1.338	1.100	3.383E-04	10.93	.79	.38		1.099	
34	30.0	-13.95	3.87	-3.95	-7.62	0.00	-8.99	3.323E-03	1.407	1.264	4.080E-04	11.45	.82	.38		1.261	
35	30.0	-13.99	3.87	-3.99	-7.62	0.00	-1.17	3.659E-03	1.527	1.377	4.848E-04	11.54	.83	.38		1.378	
36	30.0	-13.74	3.87	-3.74	-7.28	0.00	4.43	3.148E-03	1.368	1.129	3.460E-04	11.19	.81	.38		1.150	
37	30.0	-13.79	3.87	-3.79	-7.62	.37	4.70	1.297E-03	.566	.485	6.126E-05	11.14	.80	.38	.432	.471	.408
38	30.0	-13.74	3.86	-3.74	-7.62	.74	4.73	2.229E-04	.126	.108	2.339E-06	11.14	.80	.38	.096	.081	.070
39	30.0	-13.80	3.92	-3.80	-7.62	2.35	4.76	6.126E-05	.052	.045	2.974E-07	11.14	.80	.38	.040	.025	.022
40	30.0	-13.82	3.86	-3.82	-7.62	3.62	4.76	6.348E-05	.034	.029	1.778E-07	11.14	.80	.38	.026	.023	.020
41	30.0	-13.87	3.95	-3.87	-7.62	5.04	4.77	2.448E-05	.018	.016	3.769E-08	11.13	.80	.38	.014	.009	.008
42	30.0	-13.62	4.01	-13.62	-7.62	5.68	-4.78	8.939E-06	.008	.007	5.881E-09	11.13	.80	.38	.006	.003	.003
43	30.0	-7.35	.27	-7.35	-7.62	5.70	-13.27	2.526E-05	.011	.007	1.635E-08	9.28	.66	.38	.004	.007	.006

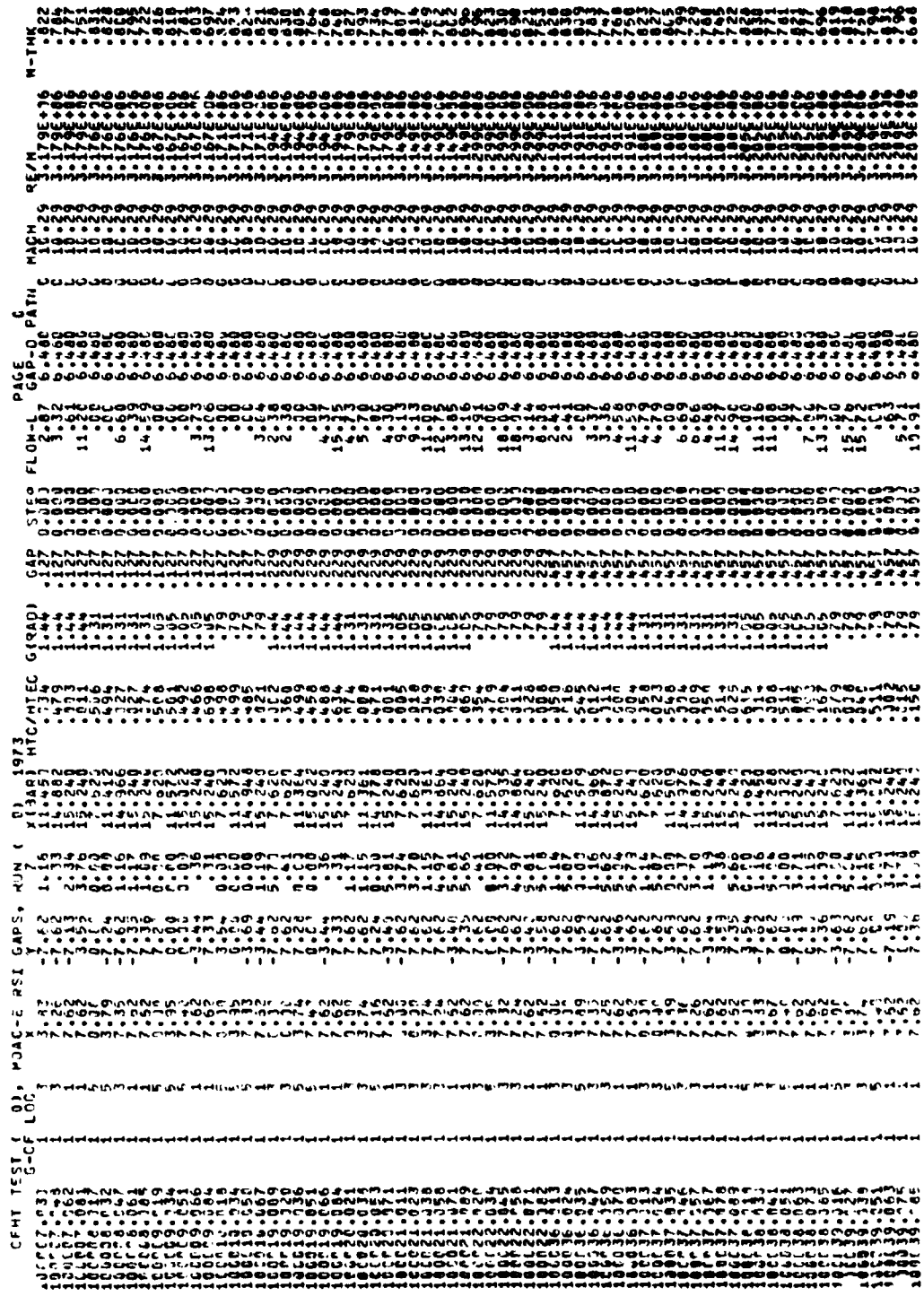


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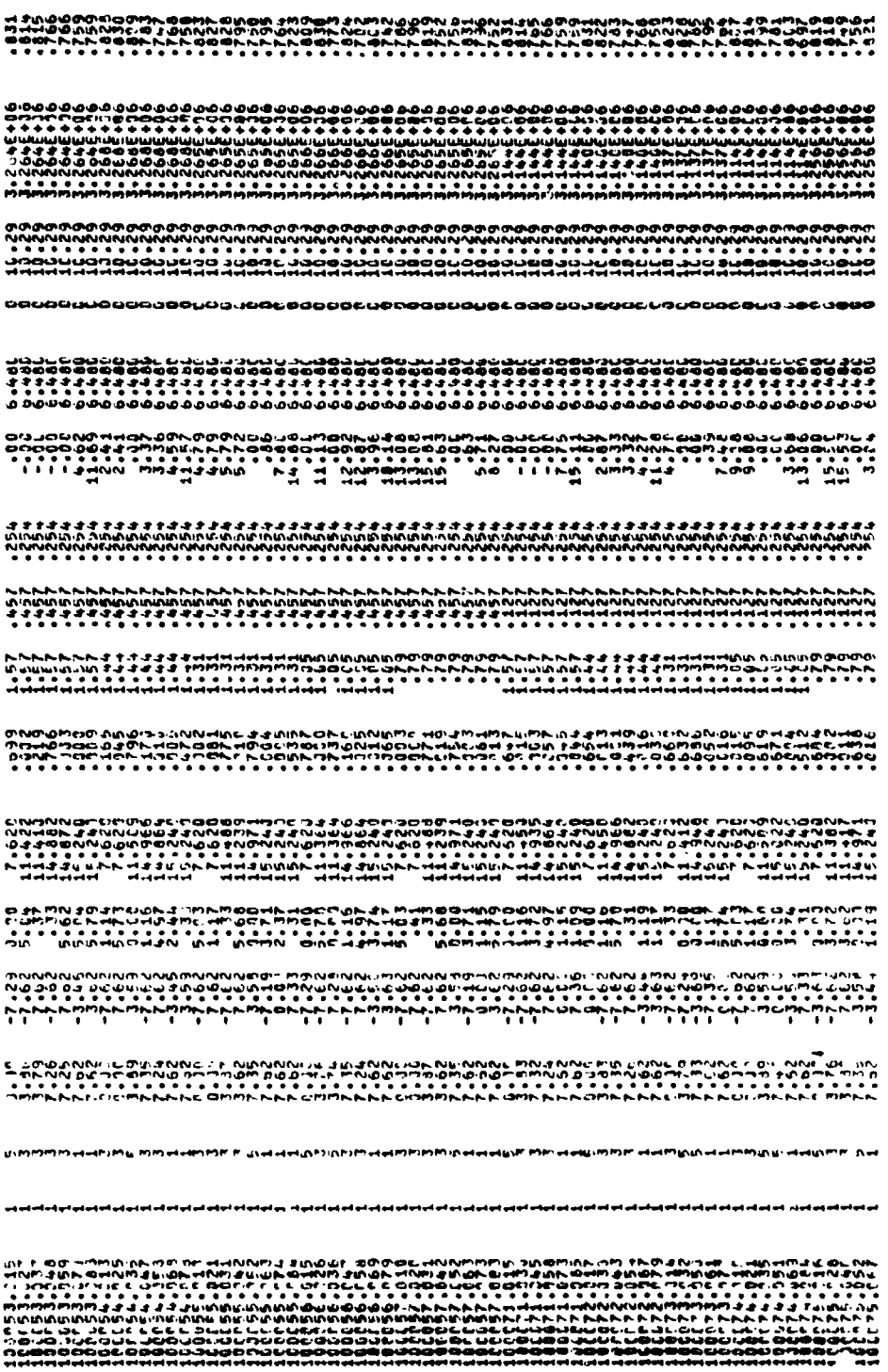

RUN
MACH
RX EQ6
RL EQ6
RE/METER
TT(K)
PT(N/M2)
T1(K)
P1(N/M2)
(RHO V)1
HO
PAGE

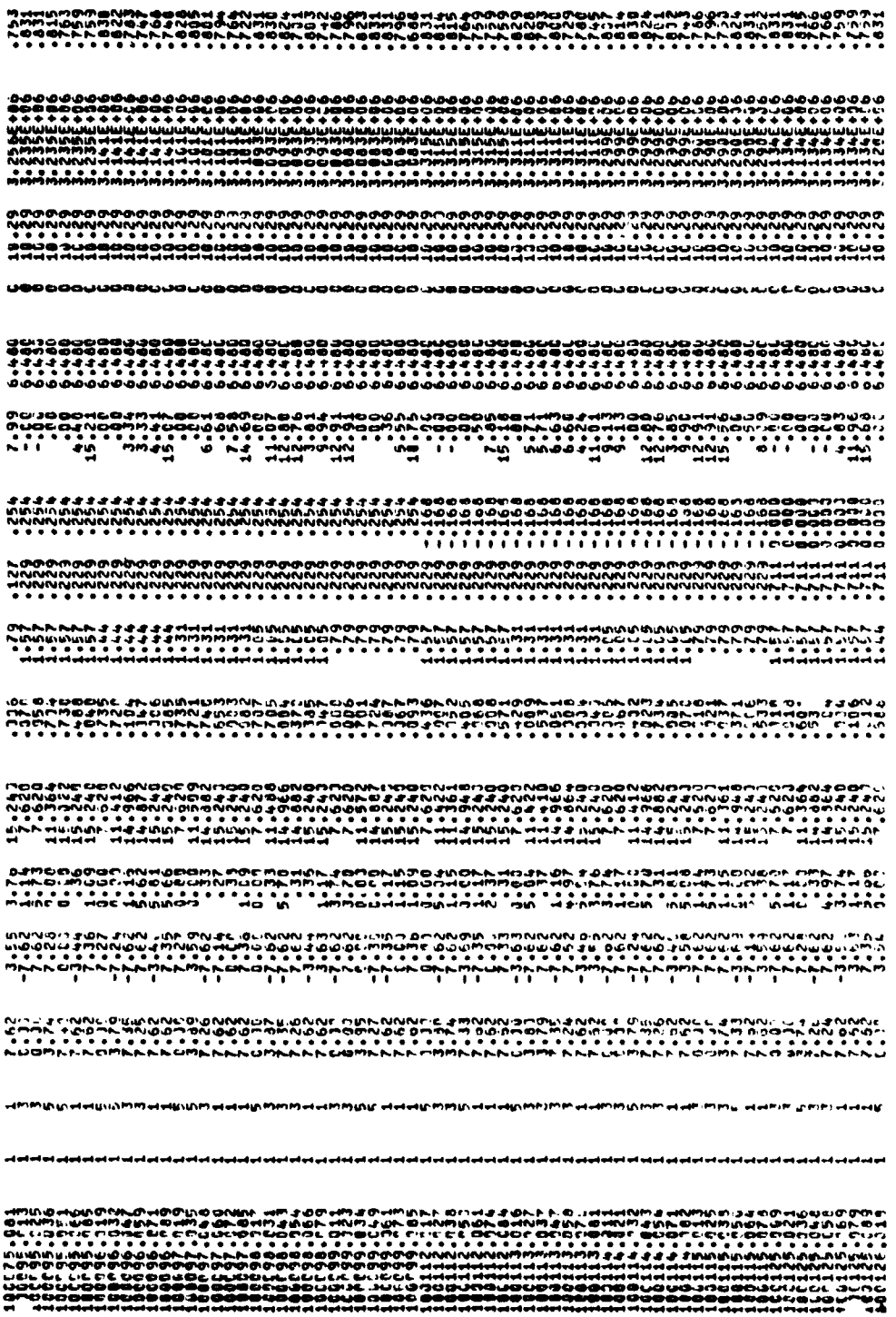

RLN
MACH
RX E-6
RL E-6
REYNETER
TT(K)
PT(N/M2)
T1(K)
P1(N/M2)
RHO V11
MG
PAGE

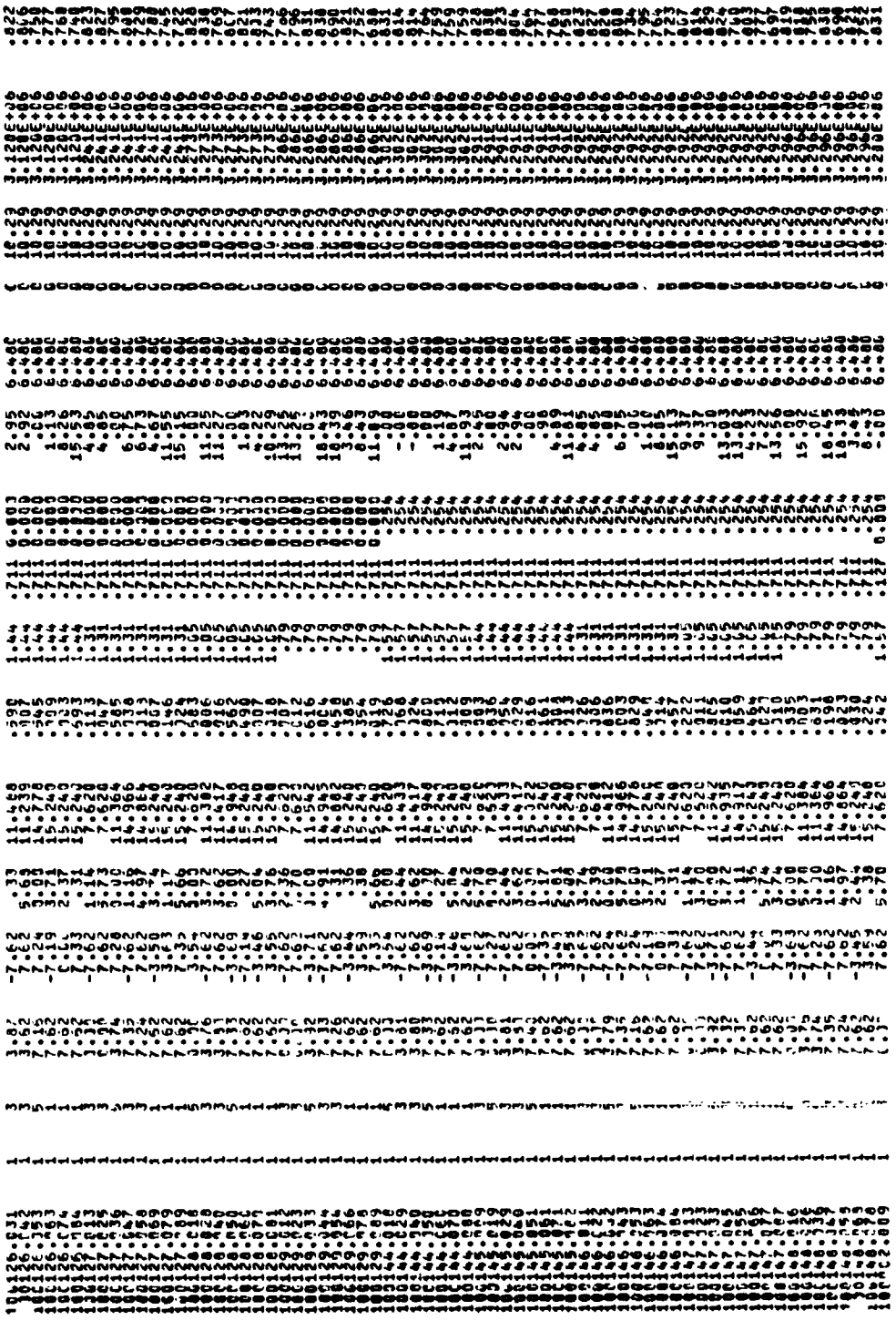


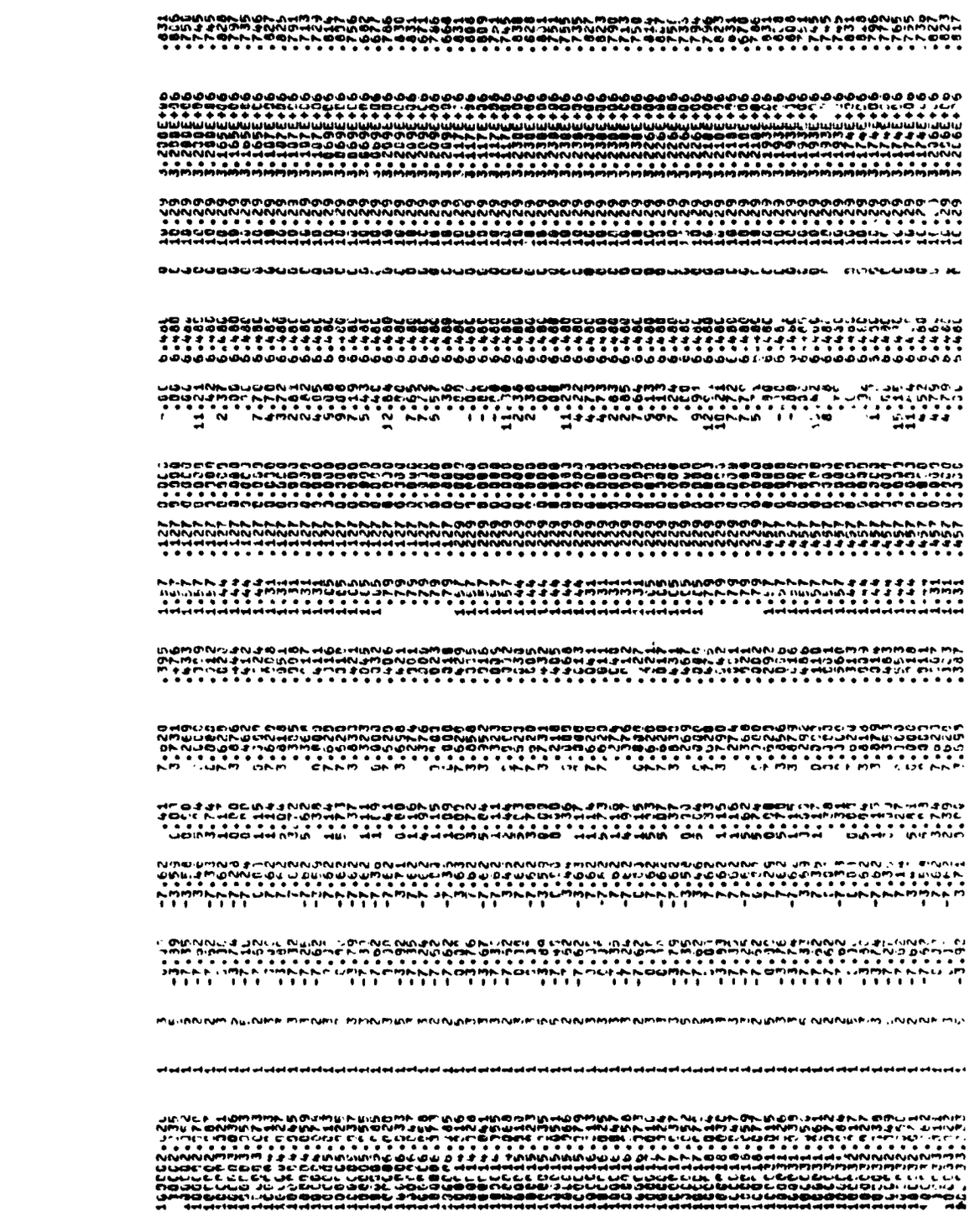


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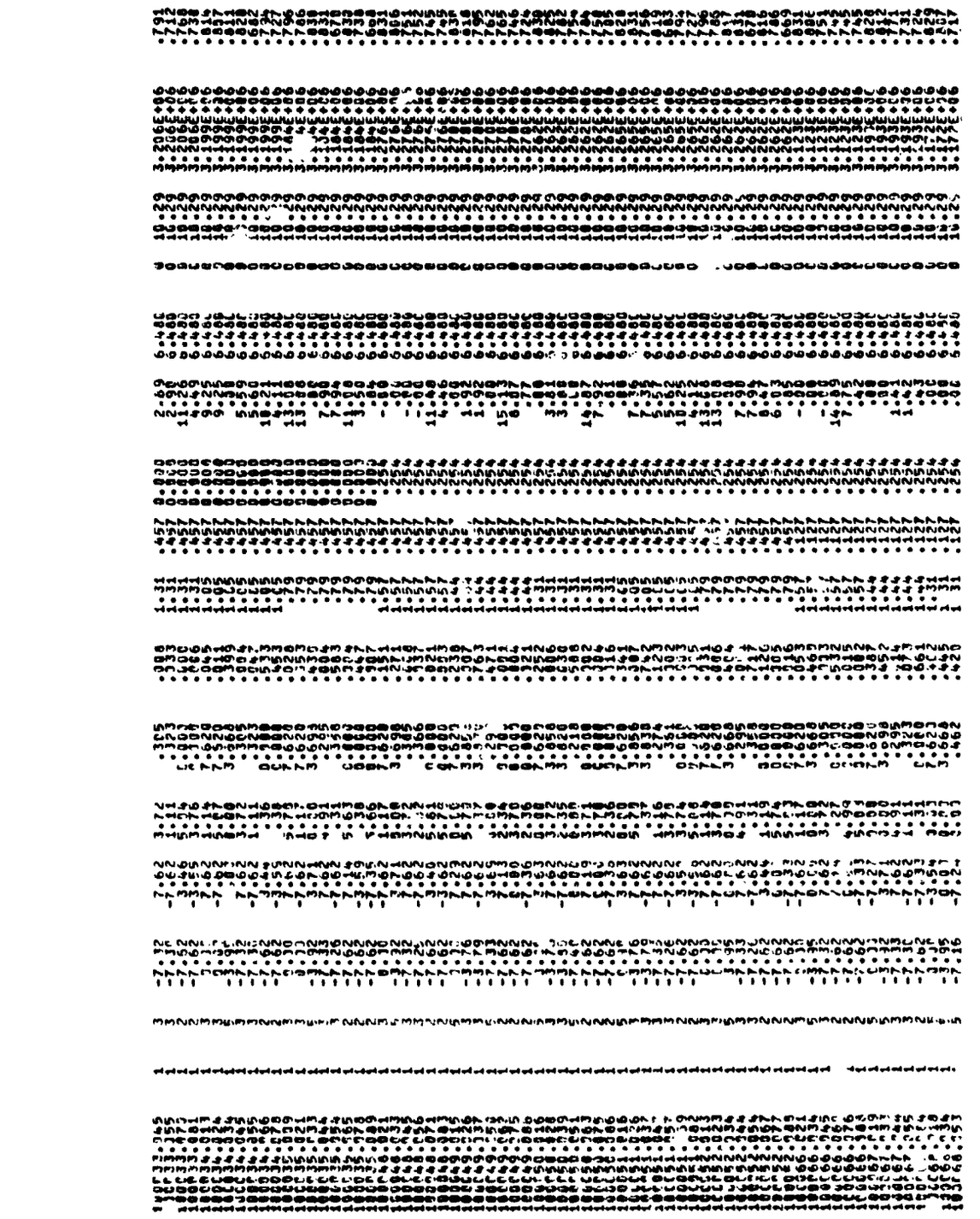


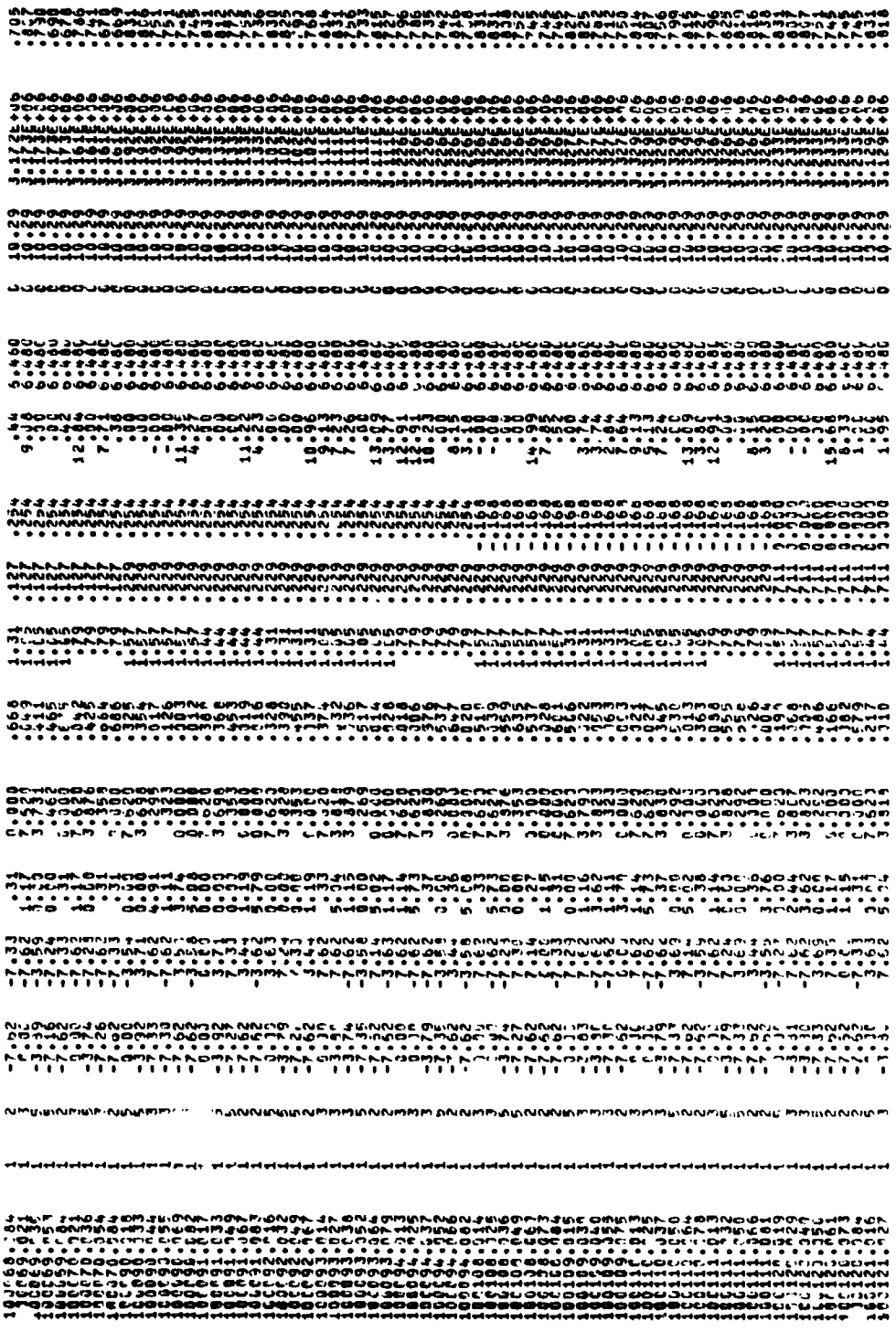


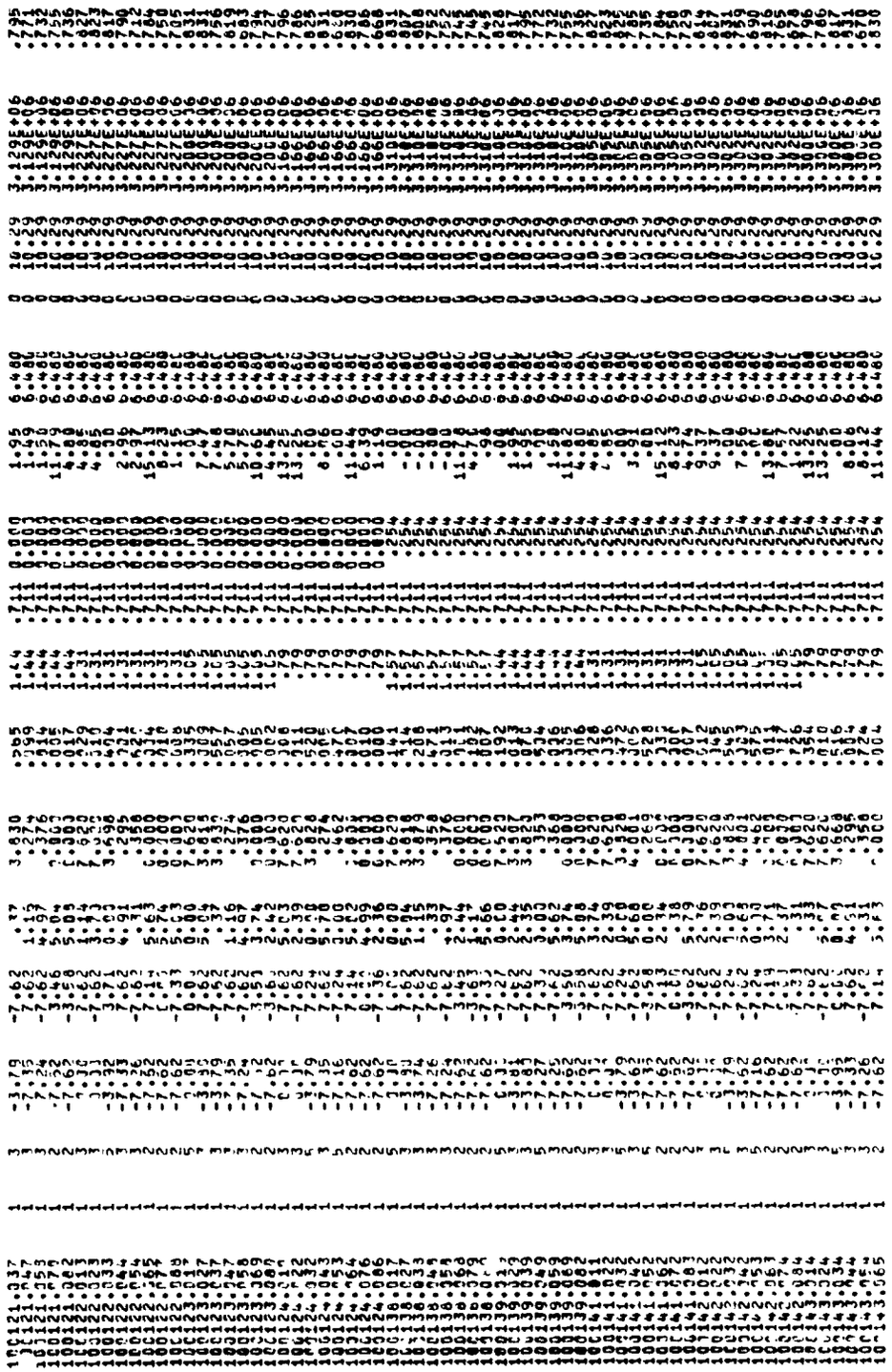


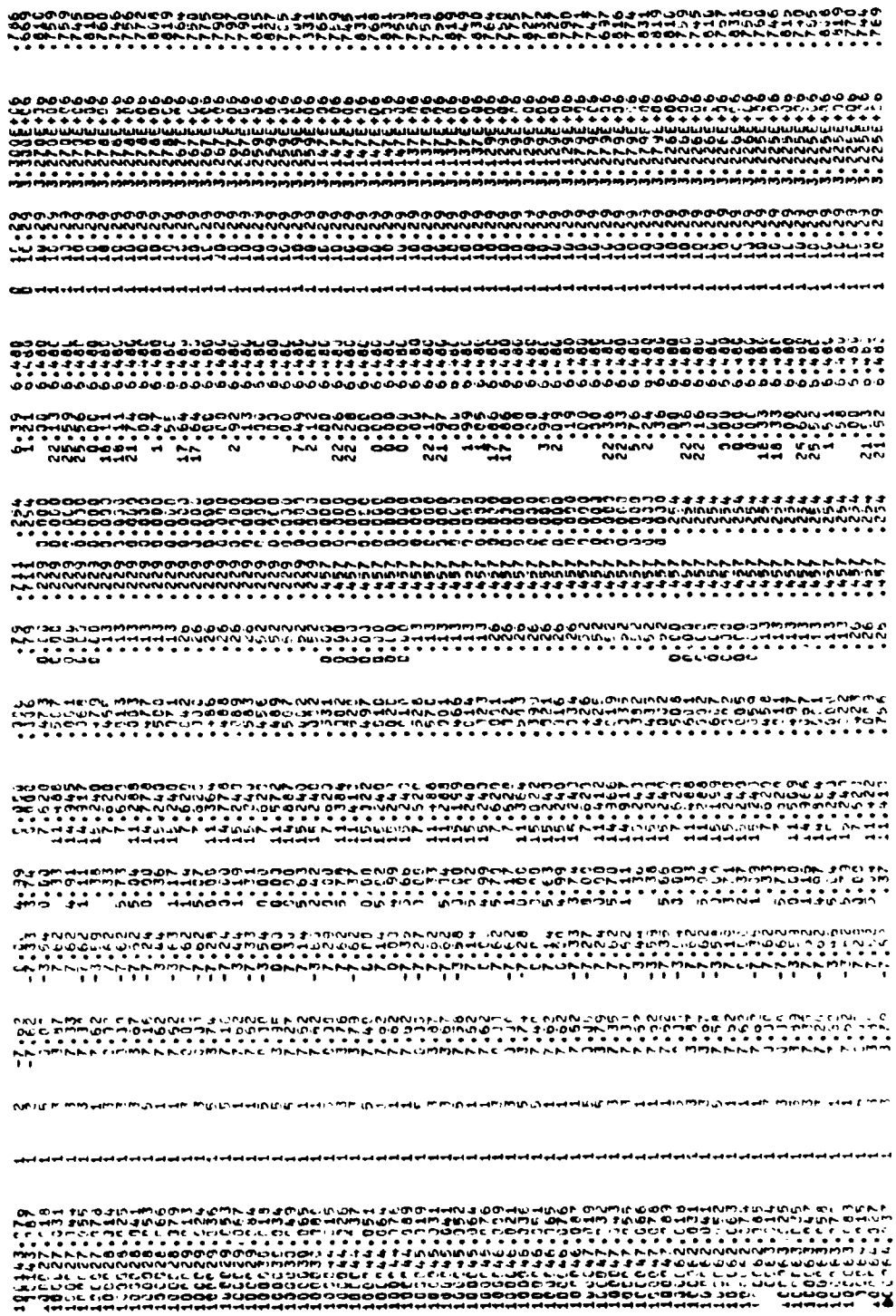


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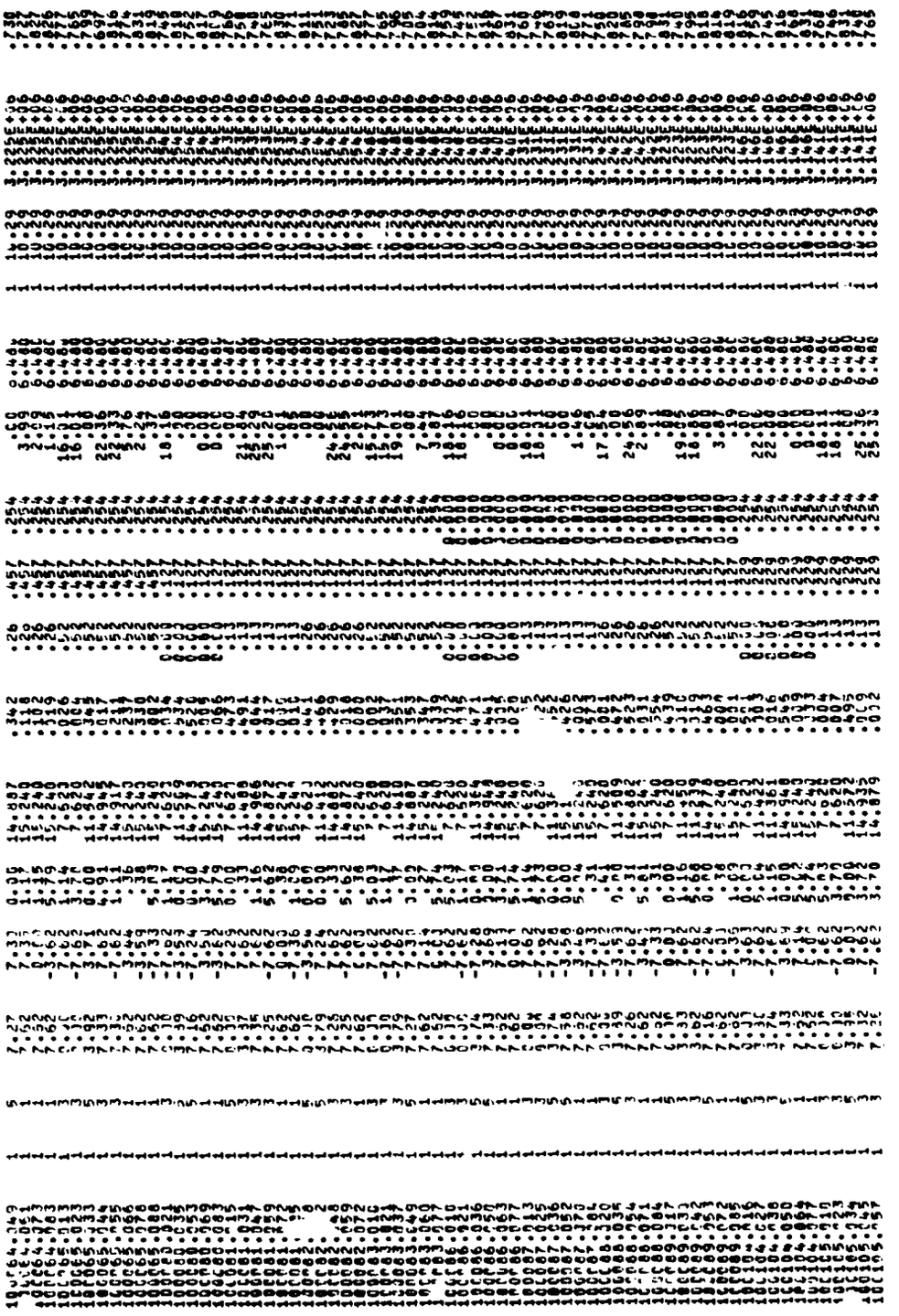


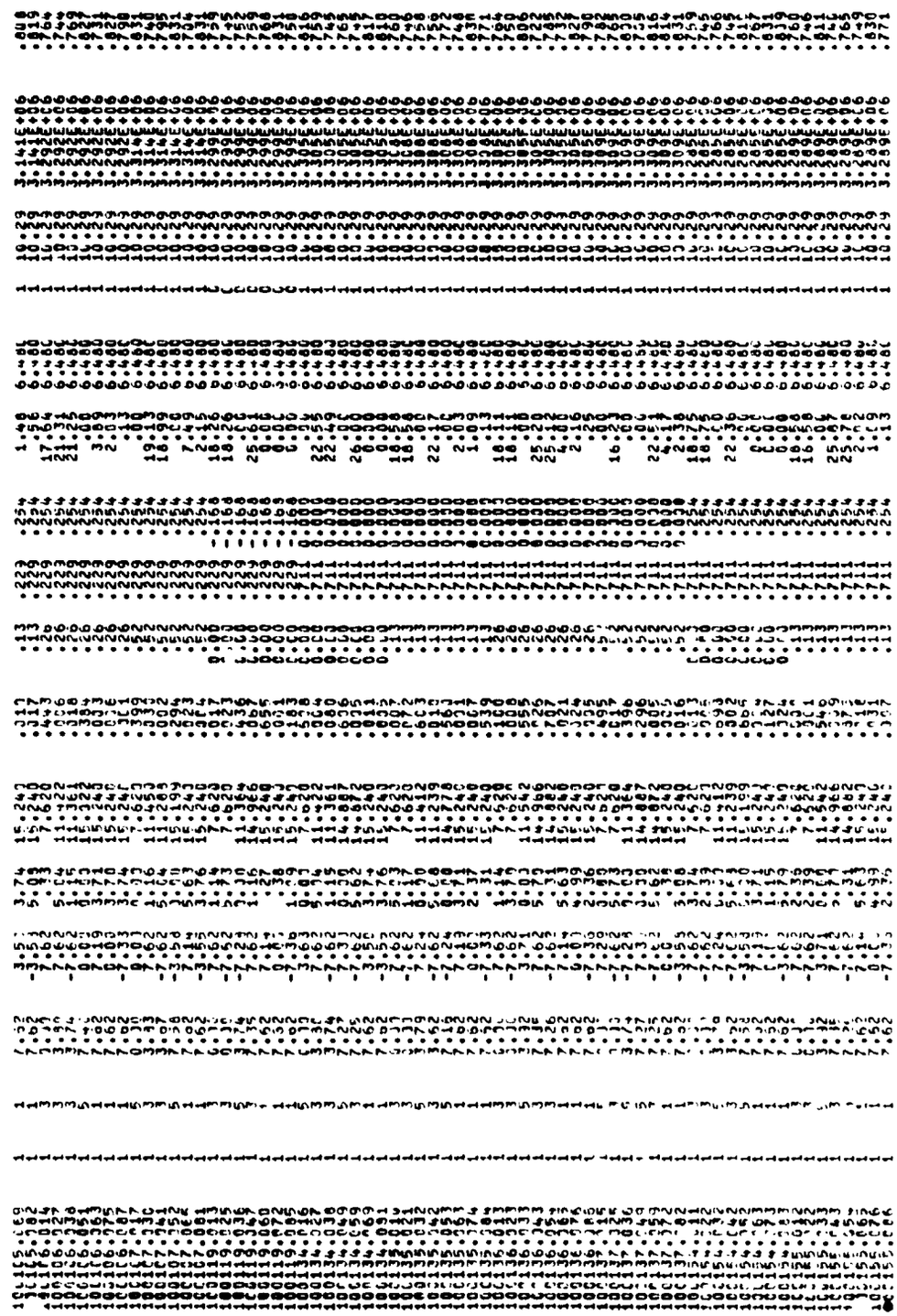




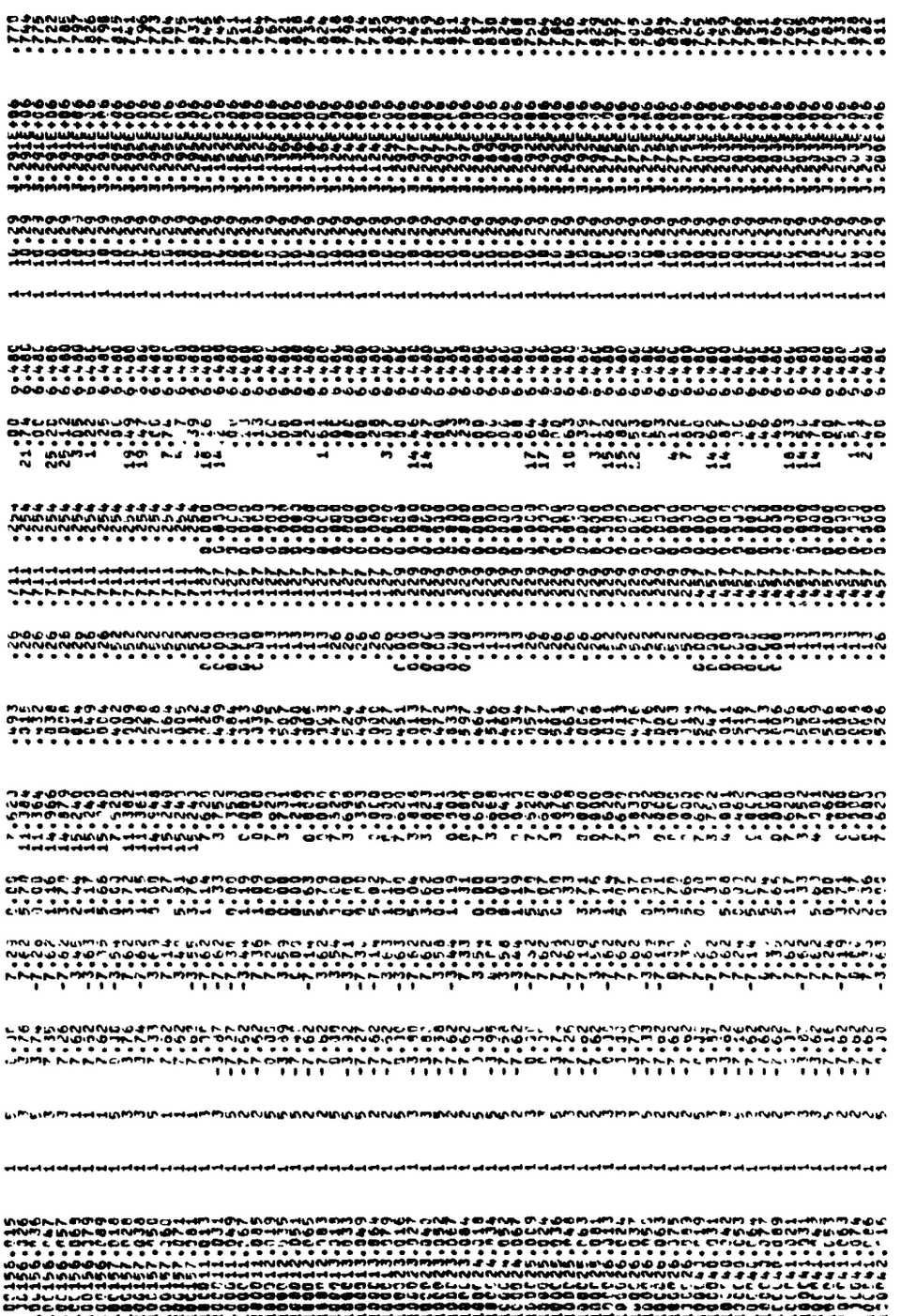


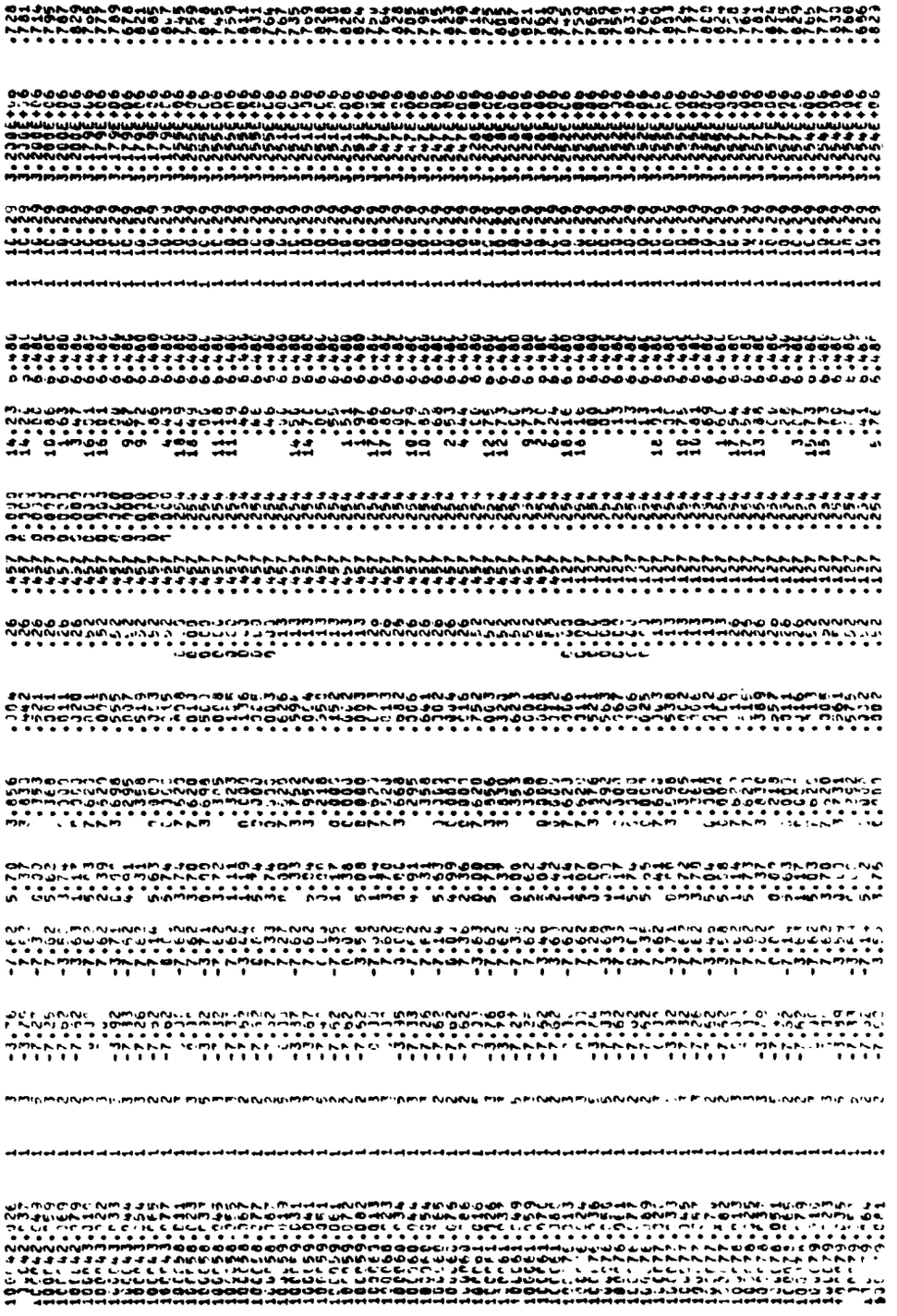
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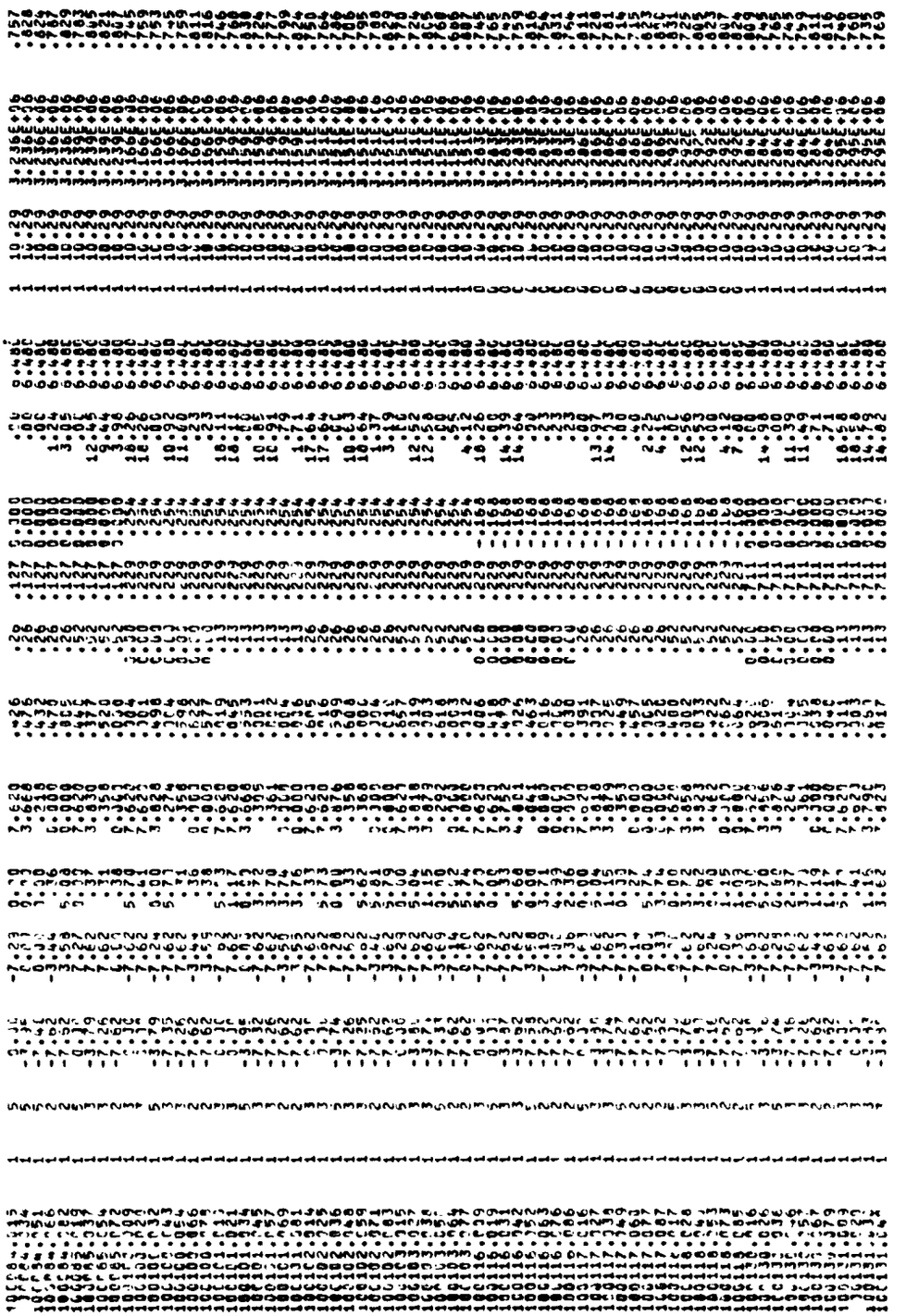


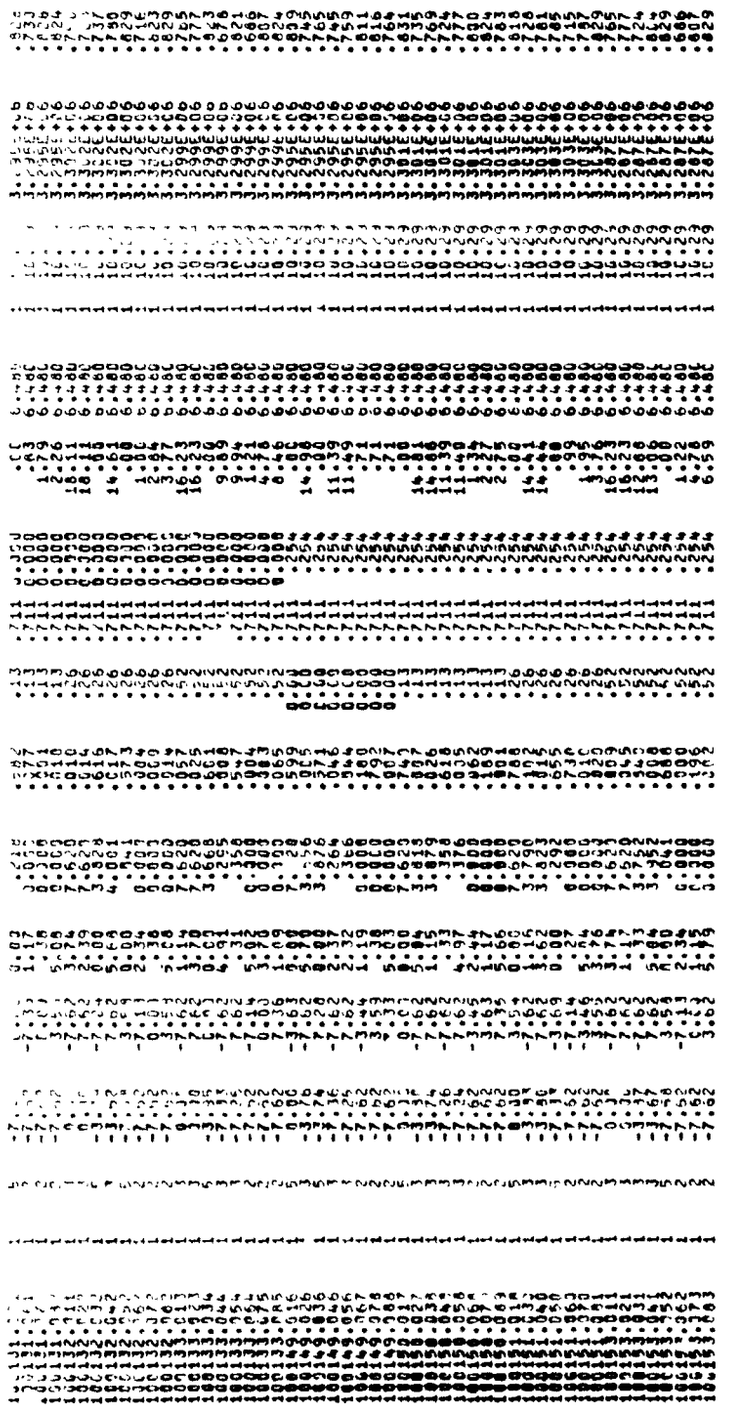
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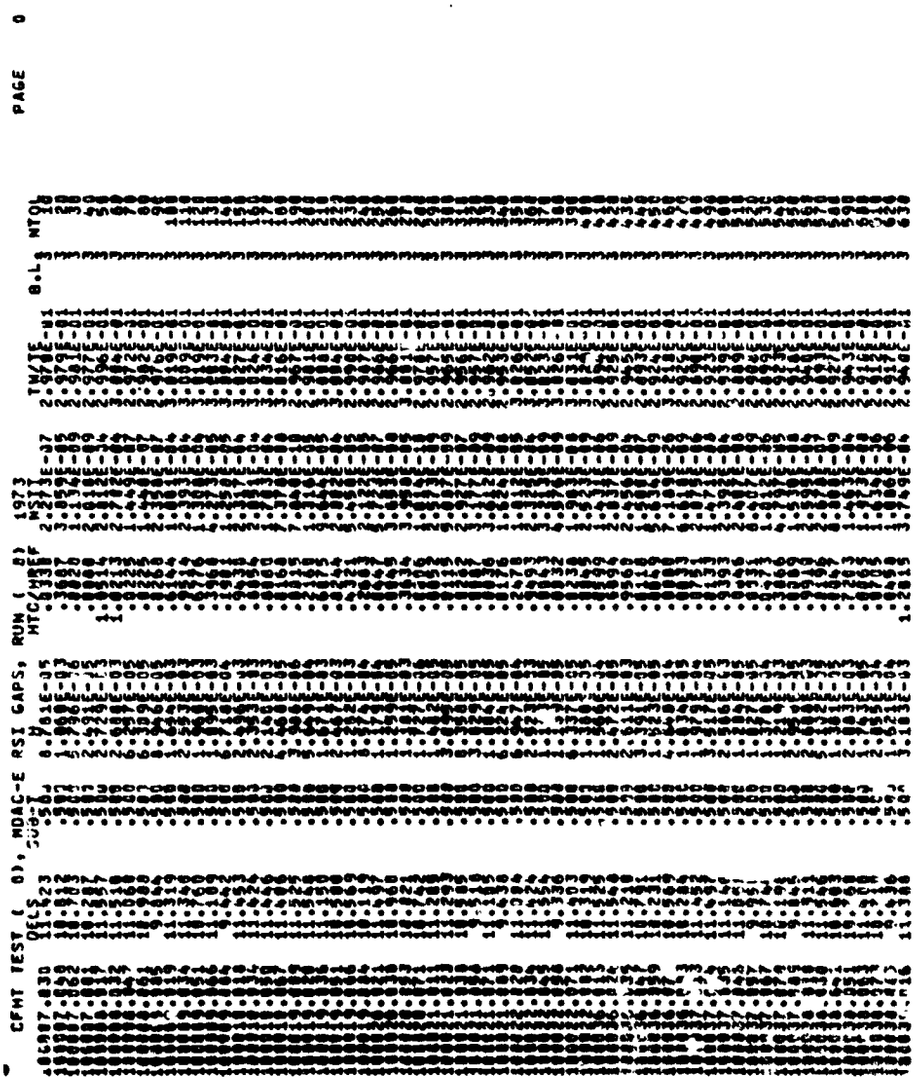


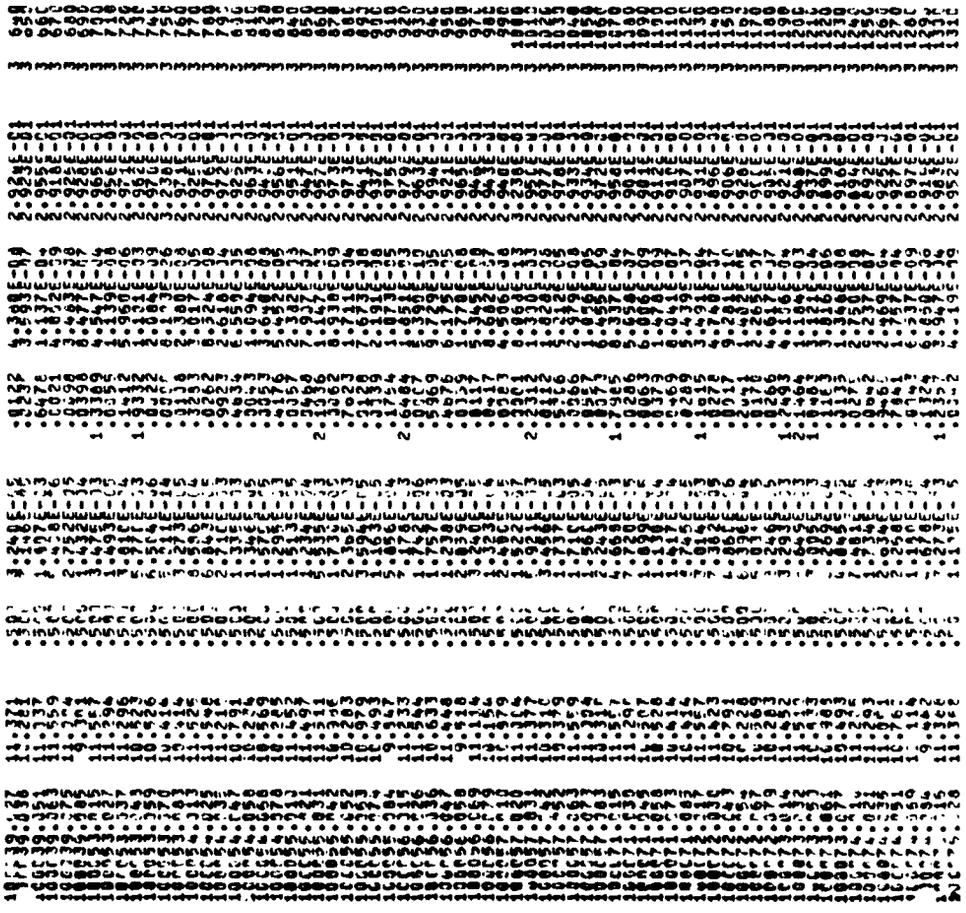


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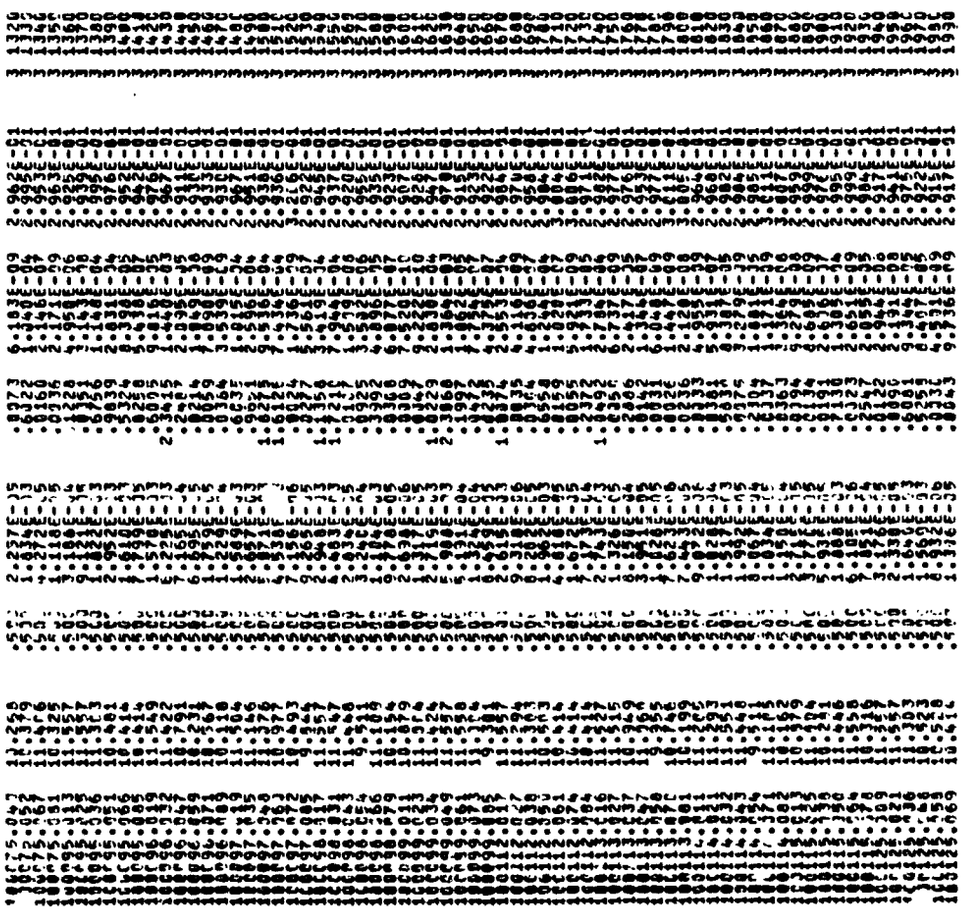


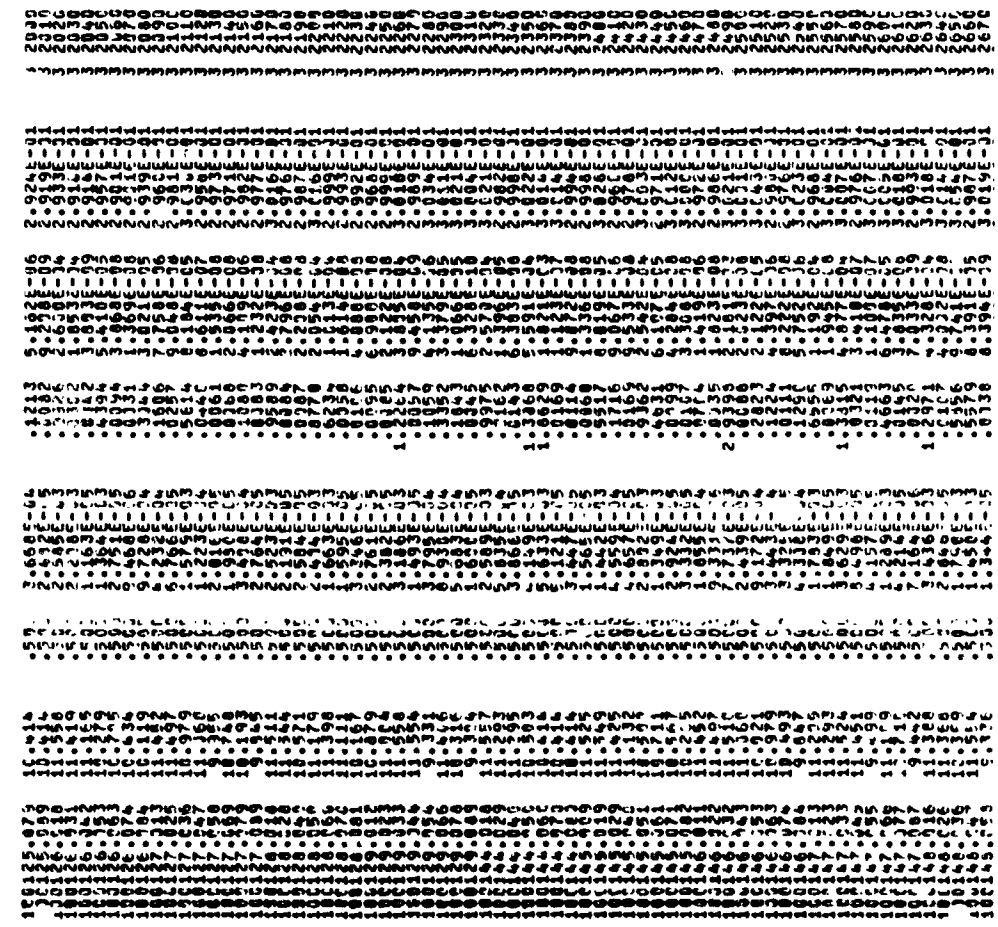



PAGE 0
CFMT TEST (0), MDAC-E RSI GAPS, RUN (8)
1973

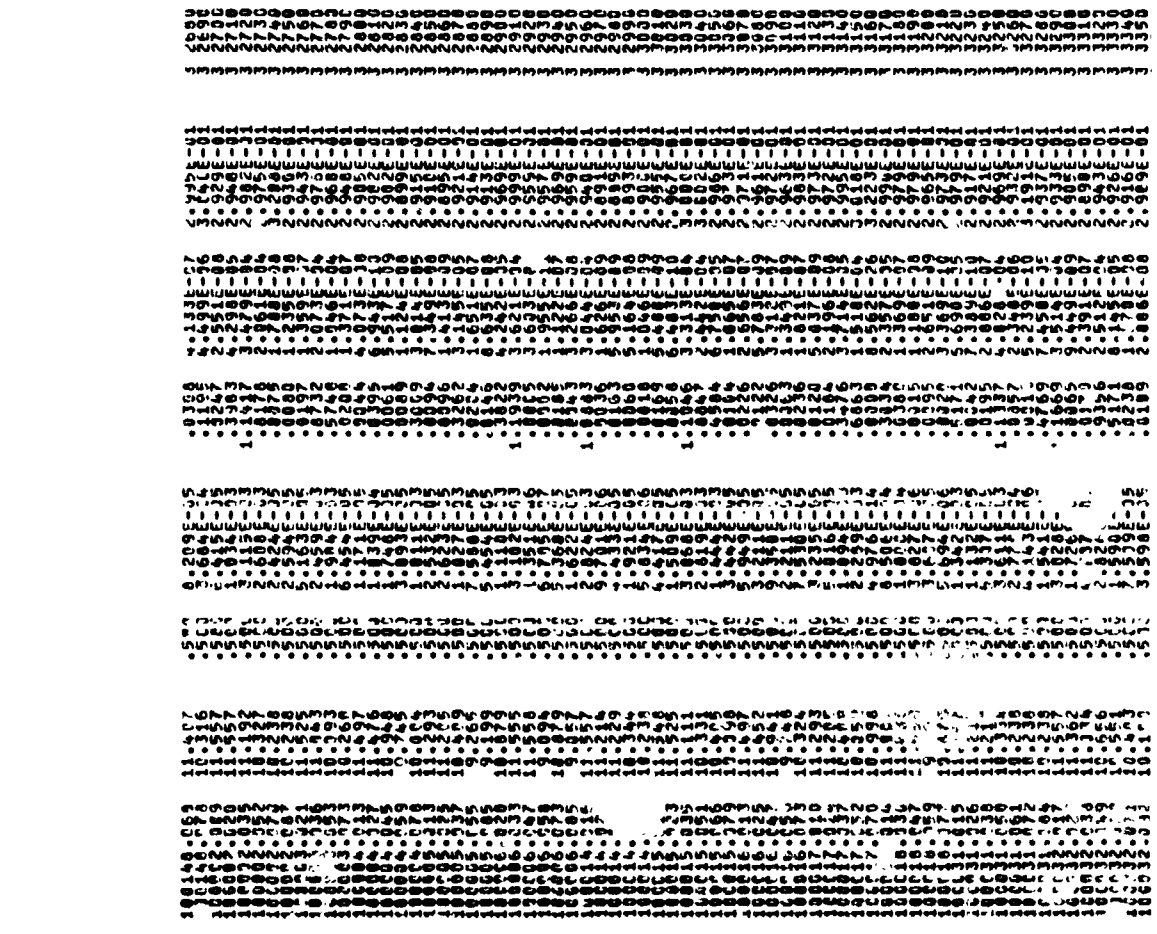


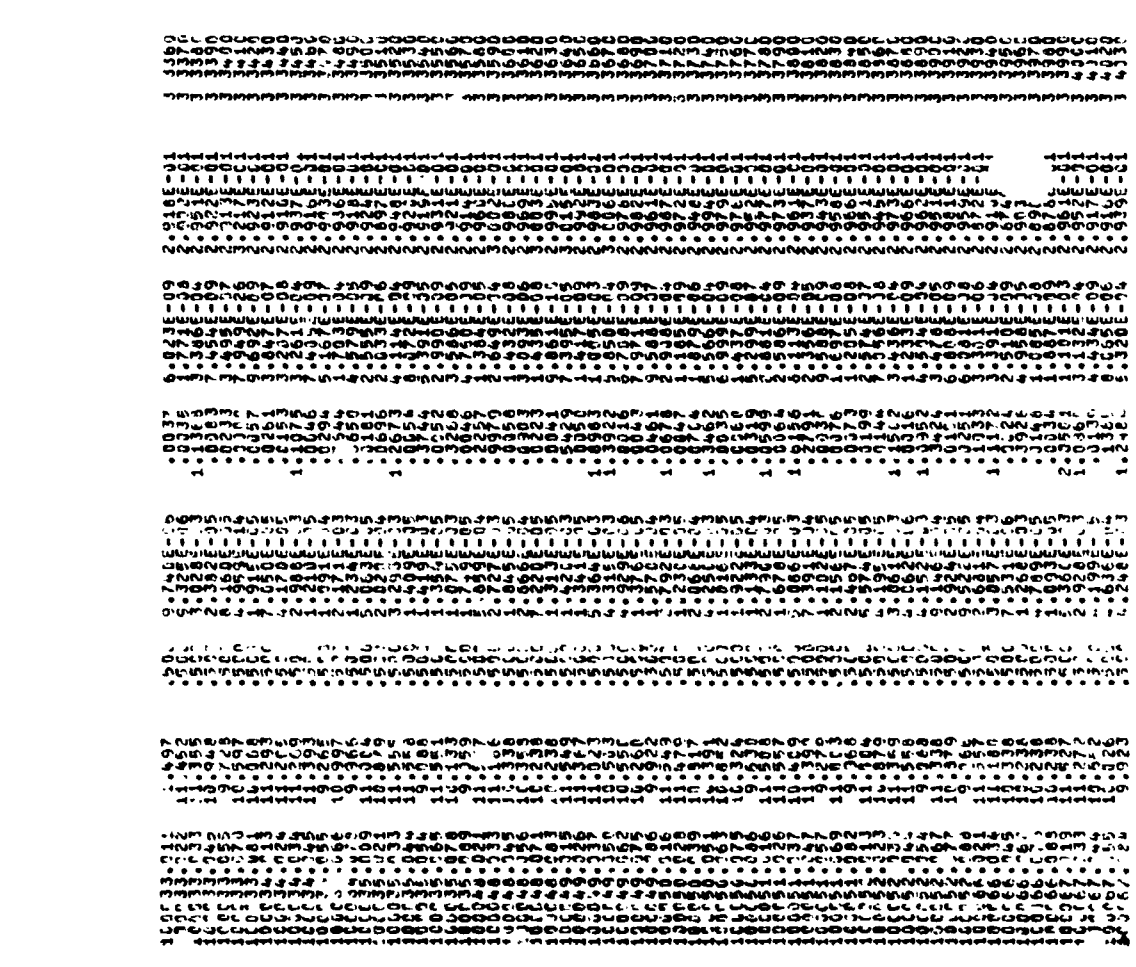
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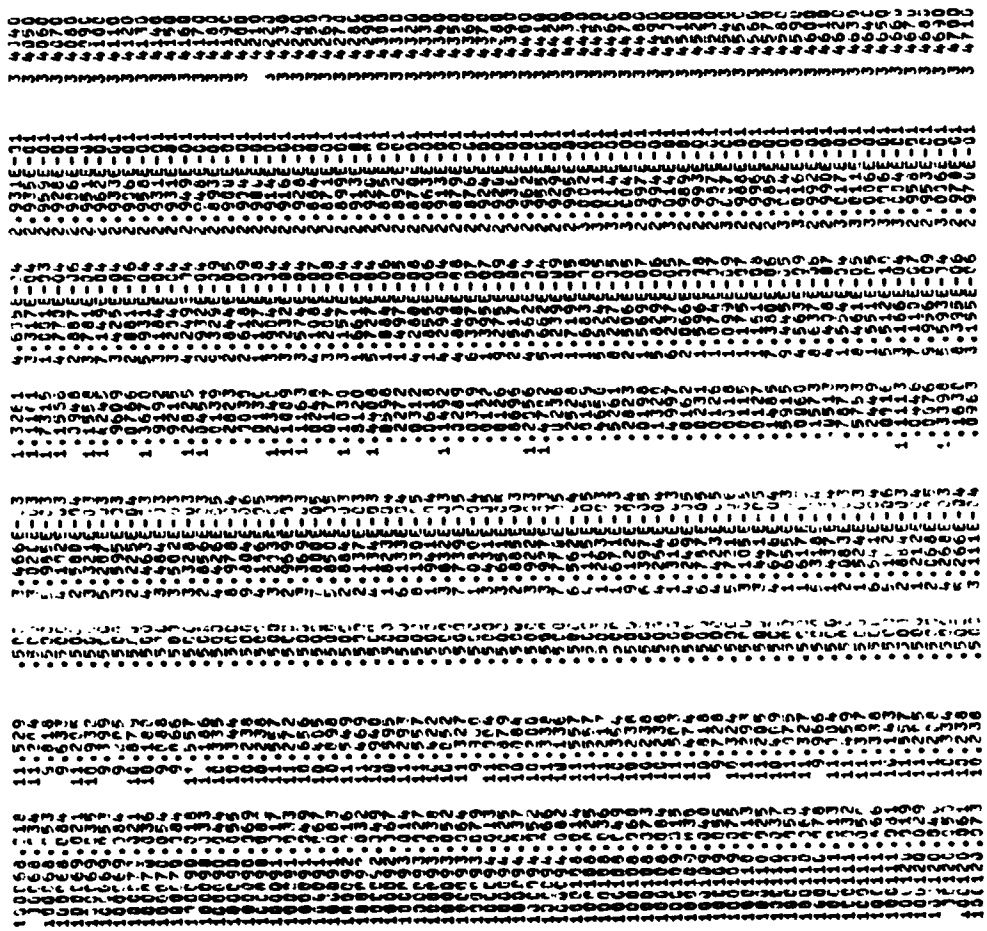


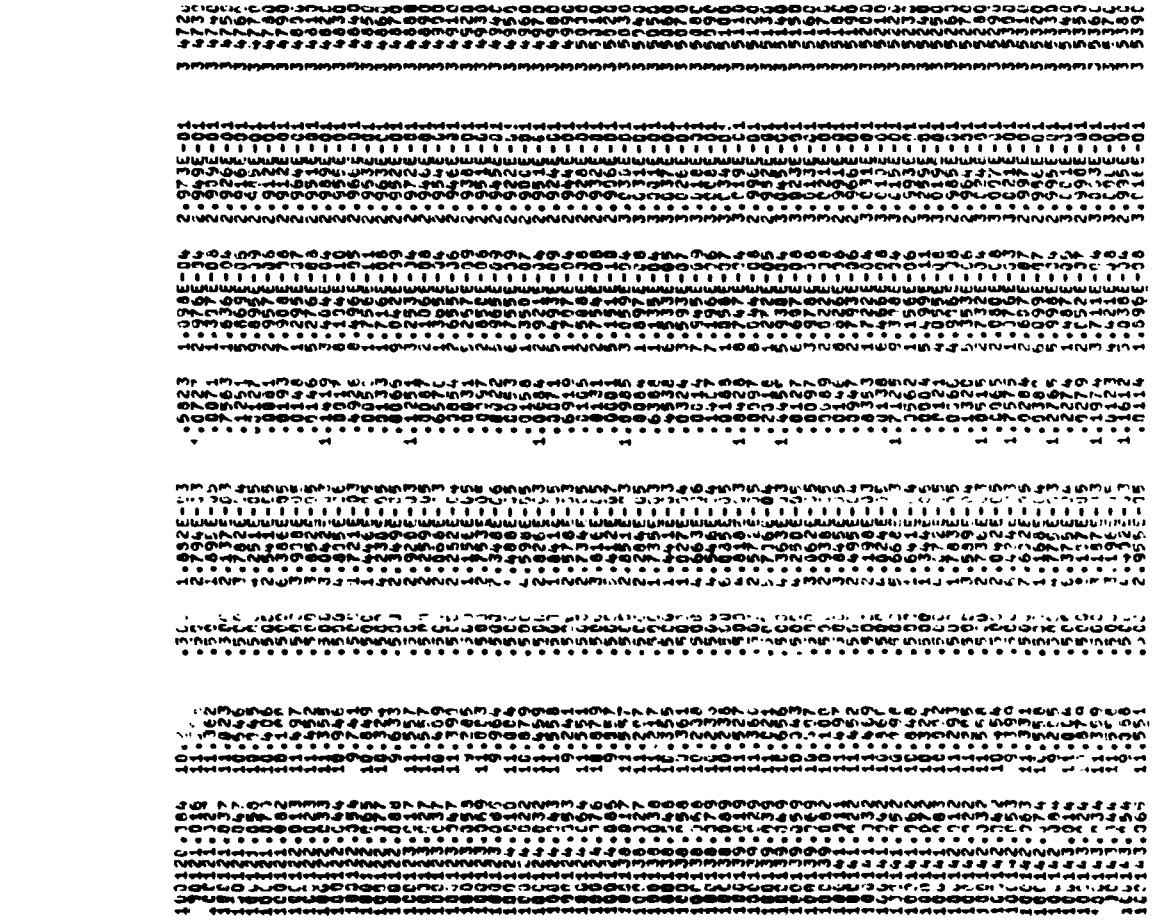


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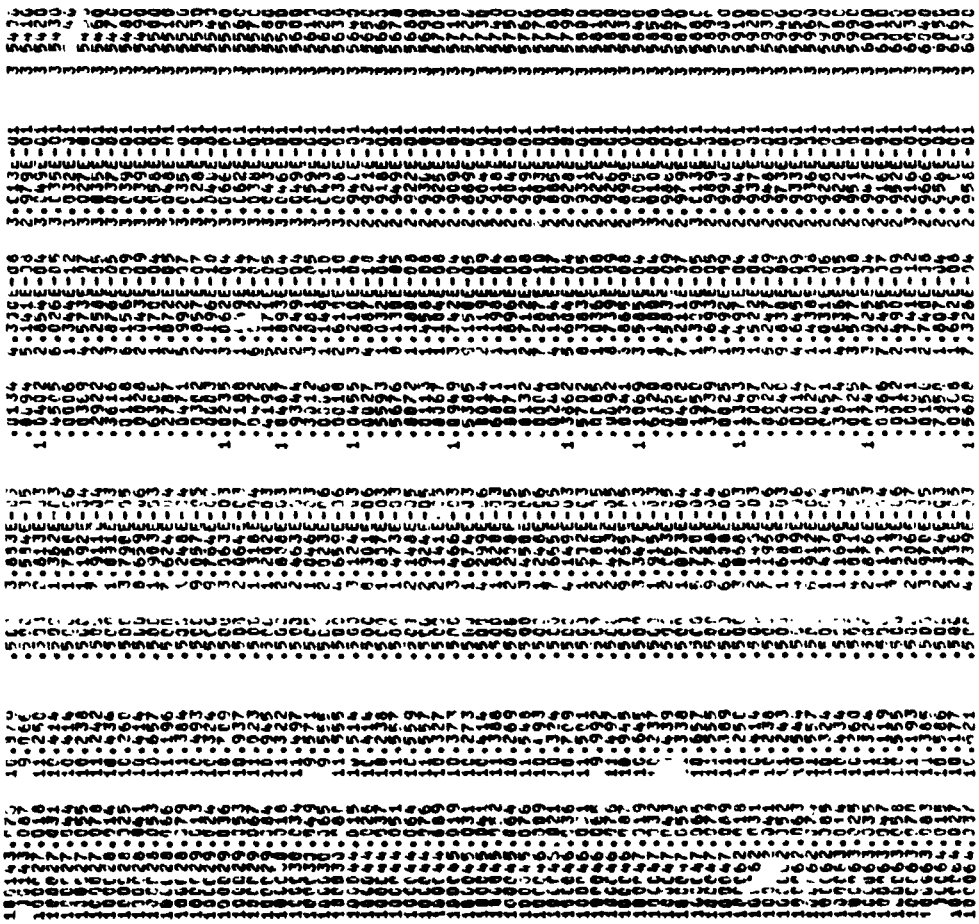


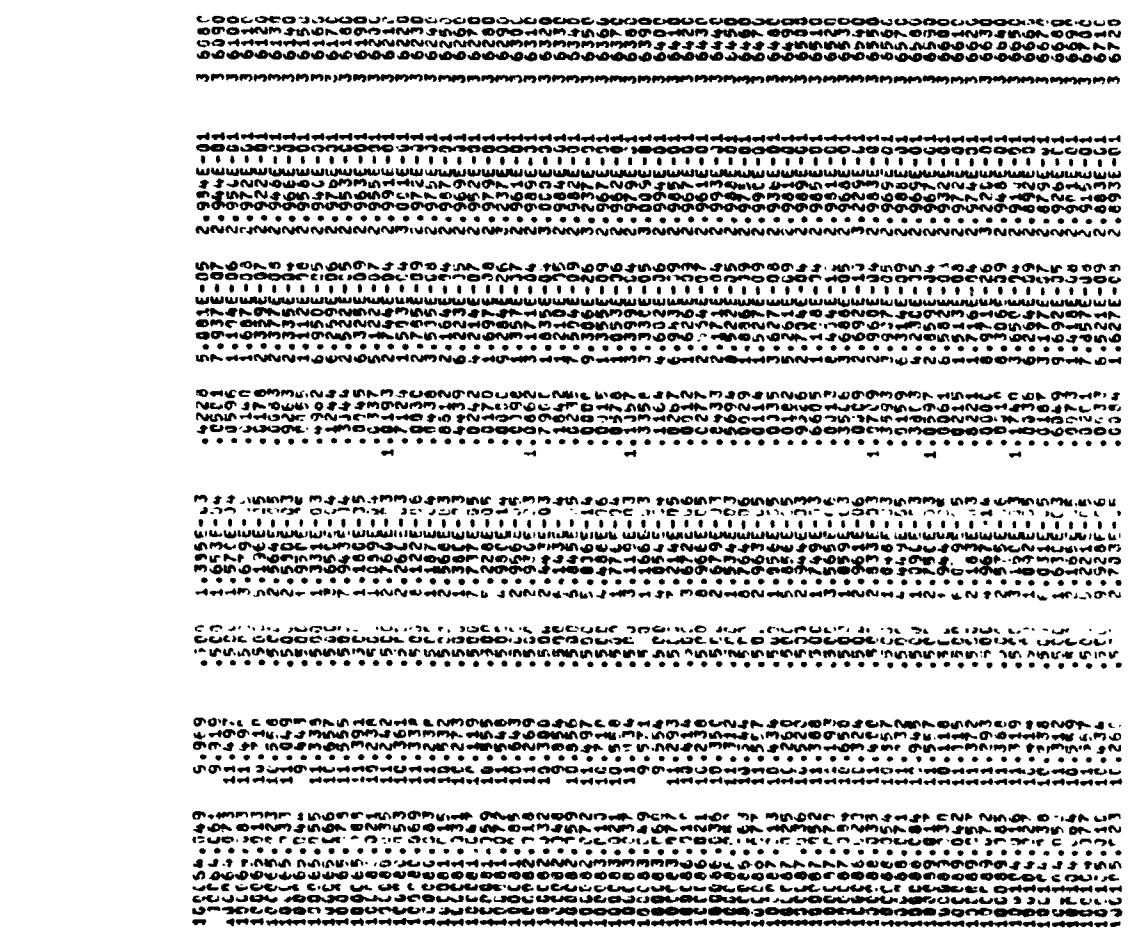


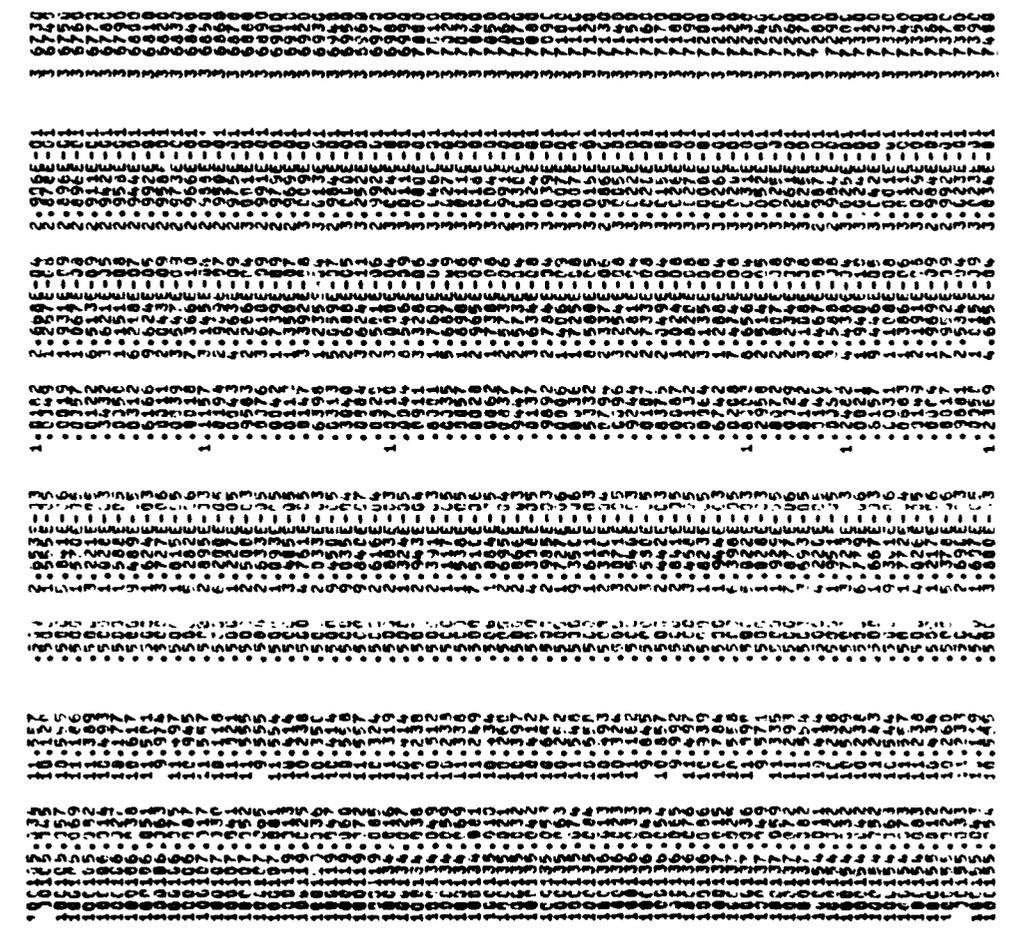


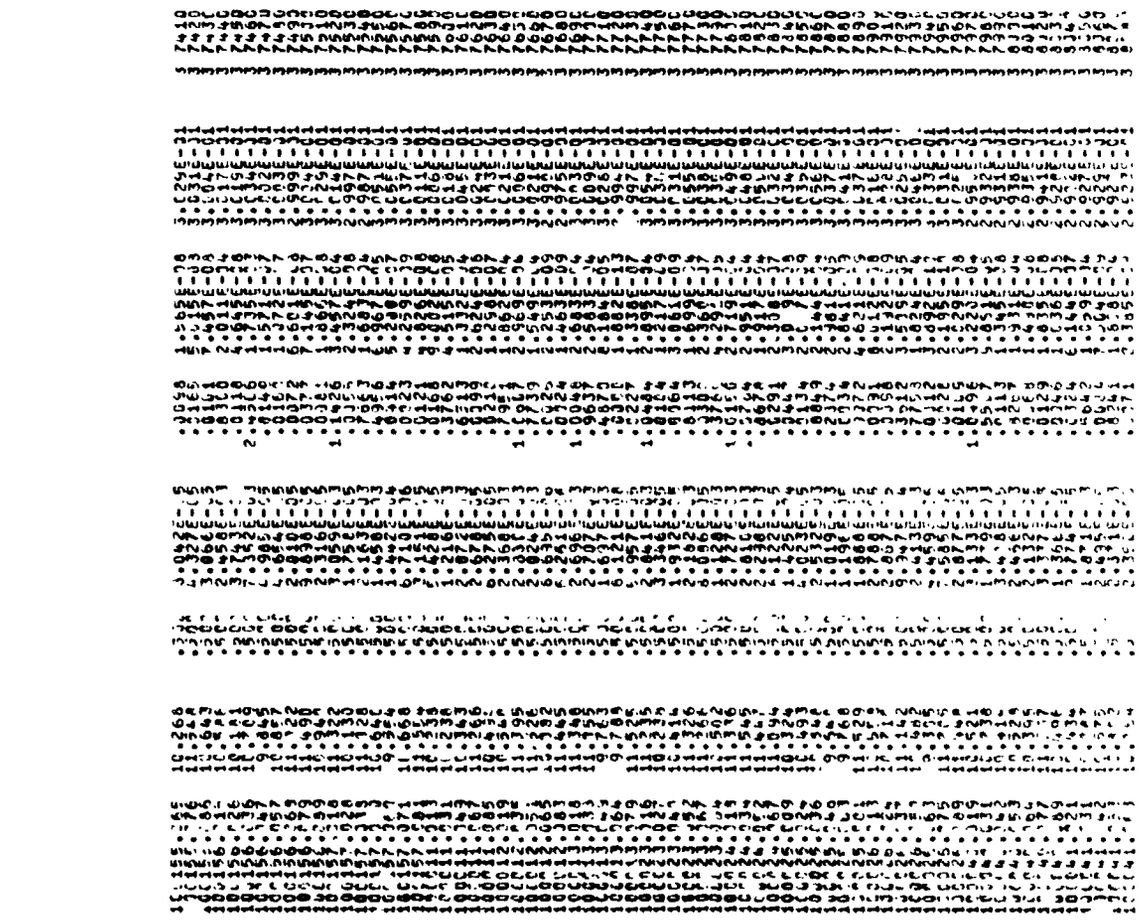


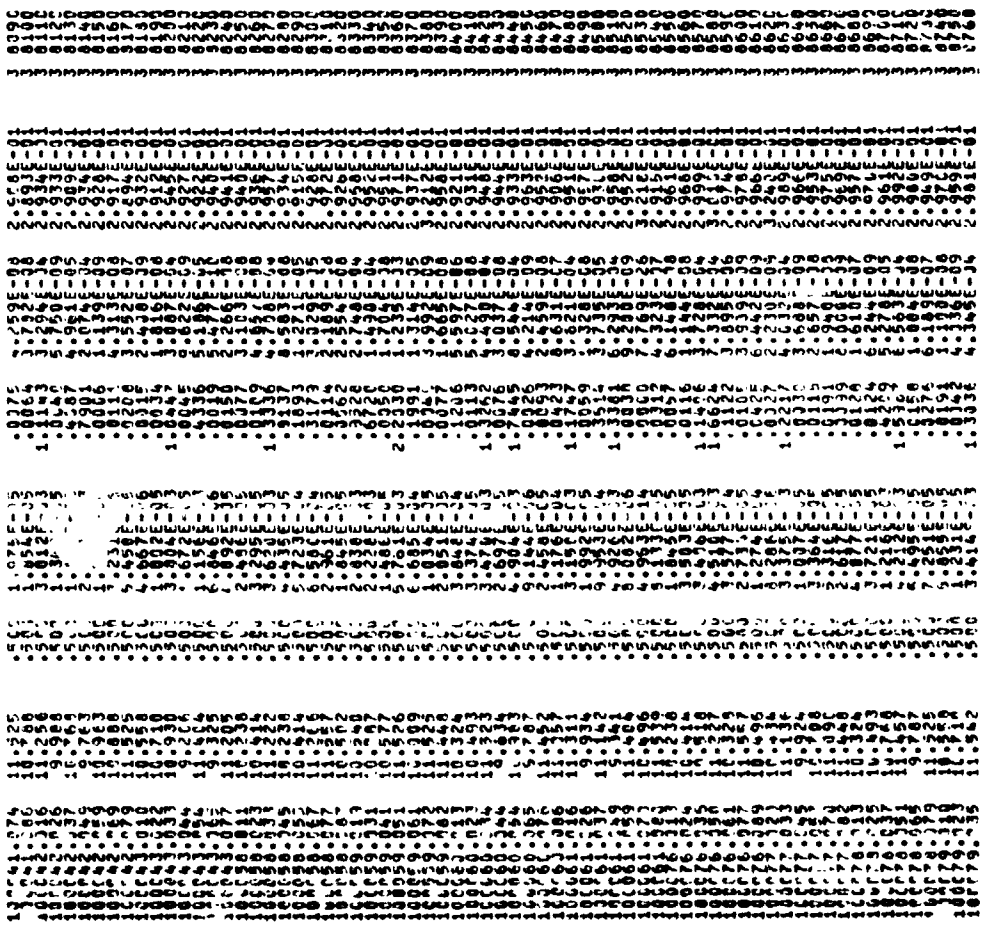
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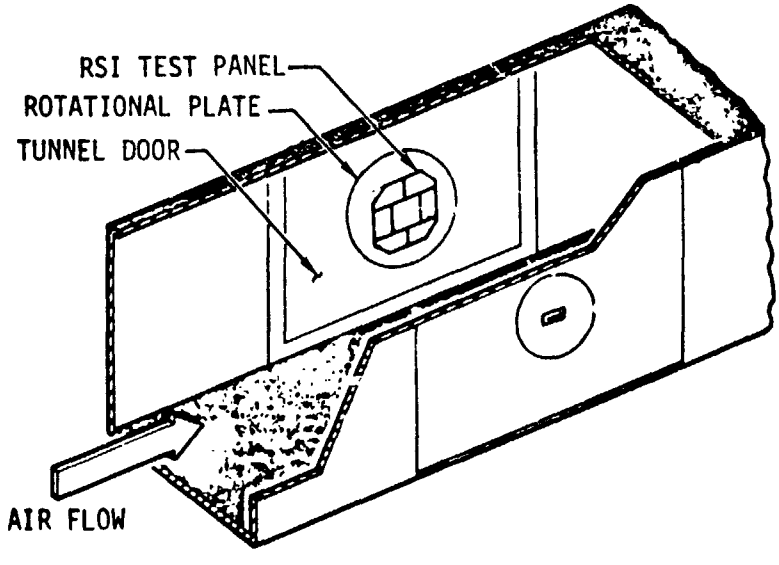


3.0 NASA/LaRC CFHT SUPPLEMENTAL TESTS

Additional tests of the HCF tile array were performed in Langley's Continuous Flow Hypersonic Tunnel (CFHT) at a freestream Mach number of 10.3 and a freestream unit Reynolds number of 3.28×10^6 and 7.38×10^6/meter. The purpose of the test program was to study the heating on the face of a tile submerged in a thick turbulent boundary layer as a function of gap width, Reynolds number and flow orientation. These tests were performed on the side wall of the tunnel (Figure 3.0-1) which has a boundary layer thickness of 5.08 to 10.16 centimeters. Refer to Section 2.1 for a view of the CFHT. Heating measurements were made by inserting the panel into the test position and recording thermocouple responses.

Mr. D. A. Throckmorton was the NASA engineer responsible for conducting the tests.

RSI-TPS WIND TUNNEL CONFIGURATION (CFHT AT LaRC)



- o ADJUSTABLE GAP
- o SHIMS FOR STUDYING MISMATCH
- o 0 TO ±90° ORIENTATION

Figure 3.0-1

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TEST CONDITIONS AND RUN SCHEDULE

Tests were conducted in the tunnel wall boundary layer of the Langley Continuous Flow Hypersonic Tunnel with freestream flow conditions of Mach number, M_∞ = 10.3, and unit Reynolds number, R_N = 3.28 x 10^6 and 7.38 x 10^6/meter. At these conditions, the tunnel wall boundary layer is fully turbulent with a displacement thickness, δ^*, of approximately 12.06 centimeters. Varied test parameters were: tile orientation (staggered/in-line), gap width and Reynolds number. The run schedule is presented below:

TEST 91 - SUPPLEMENTAL RUNS - FEBRUARY 1974

RUN	GAP (cm)	ORIENTATION	Re_∞/m
161	.127	Staggered	3.28x10^6
162	↓	Staggered	7.38x10^6
163	↓	In-line	3.28x10^6
164	↓	In-line	7.38x10^6
165	.229	Staggered	3.28x10^6
166	↓	Staggered	7.38x10^6
167	↓	In-line	3.28x10^6
168	.229	In-line	7.38x10^6
169	Closed		7.38x10^6
170	Closed		3.28x10^6

3.1 MODEL DESCRIPTION

REFER TO SECTION 2.1

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3.2 TERMINOLOGY USED IN DATA LISTING

REFER TO SECTION 2.2

3.3 Data Tabulation for LaRC CFHT Gap Heating Tests (Supplemental Tests) – This section contains the tabulation of data from the CFHT (supplemental tests) which is stored in the Data Bank. The program for transcribing data from the CFHT into the Data Bank is described in Section 2.3. The data listing begins on Page 3.3-2.

C-5

CFHT TEST (921), MDAC-E RSI GAPS, RUN (1t1) 1973 PAGE 1

MACH = 15.29
REX E06 = 1.000E-12
RHO/MHETA = 4.000E-04
RHO = 2.881E-04 (KG/M3)
TINF = 299.3 (K)
STEP = 0.333 (CM)

TAWTT = 5.195 FOR HT/HO
XSURF = SURFACE DISTANCE (FROM OIG STAG POINT) DEG.) TO EDGE OF TILE
HT/HE, GAP HEATING RATIOED TO EDGE OF TILE
HTC/HEC, CONDUCTION CORRECTED HT/HE

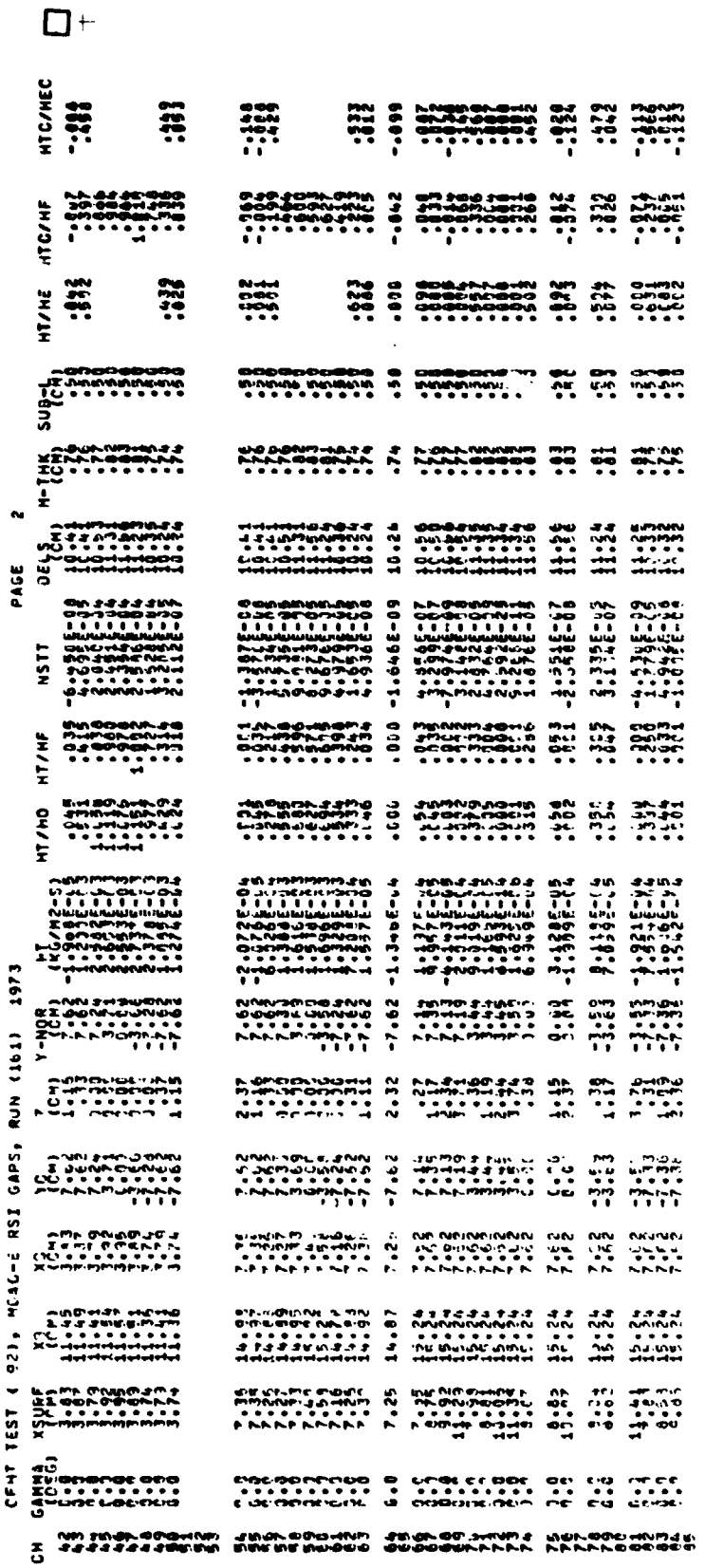
II = 9.203E+00 (N/M)
I1 = 49.502 (K)
PI = 49.502 (N/M2)
IRHO V11 = 1.196E-03 (KG/M3-S)
GAP = 1.129 (CM)
CONF = STAG

TILE COORDINATES(GAMMA=1.4):
X8 = X-COOR. FROM TILE CENTER
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

CM	GAMMA (DEG)	XSURF (CM)	X3 (CM)	YC (CM)	Z (CM)	Y-NOR	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-TNK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
2	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
3	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
4	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
5	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
6	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
7	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
8	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
9	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
10	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
11	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
12	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
13	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
14	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
15	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
16	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
17	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
18	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
19	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
20	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
21	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
22	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
23	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
24	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
25	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
26	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
27	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
28	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
29	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
30	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
31	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
32	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
33	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
34	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
35	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
36	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
37	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
38	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
39	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
40	0.0	-8.65	7.00	7.62	11.43	3.81	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000
41	0.0	3.81	11.43	7.62	2.44	7.62	-2.314E-04	.000	-7.769E-09	10.41	.70	.50	.000	-.077	-.000	

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ORIGINAL PAGE IS
OF POOR QUALITY

CFHT TEST (92), MOAC-L PSI GAPS, RUN (1&2) 1973 PAGE 3

SPECIFIC HEAT CORRECTED

CP	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	Y (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTG/HF	HTG/HEC
567	9.0	-6.76	1.86	-5.16	7.23	7.62	1.14	7.62	1.577E-04	.779	.986	1.029E-07	9.67	.96	.15	.045	1.298	.819
	9.0	-6.14	1.48	-4.54	7.23	7.62	1.14	7.62	1.577E-04	.779	.986	1.029E-07	9.67	.96	.15	.045	1.357	.819
	9.0	-6.86	1.86	-5.16	7.23	7.62	1.14	7.62	1.577E-04	.779	.986	1.029E-07	9.67	.96	.15	.439	1.298	.411
	9.0	-6.14	1.48	-4.54	7.23	7.62	1.14	7.62	1.577E-04	.779	.986	1.029E-07	9.67	.96	.15	.439	1.357	.411
	9.0	-6.86	1.86	-5.16	7.23	7.62	3.73	-7.62	-6.143E-34	.003	.902	-2.809E-08	9.67	.96	.15	.632	-.113	-.878
	9.0	-6.14	1.48	-4.54	7.23	7.62	3.73	-7.62	-6.143E-34	.003	.902	-2.809E-08	9.67	.96	.15	.632	-.122	-.878
	9.0	-6.86	1.86	-5.16	7.23	7.62	2.44	-7.62	-7.735E-04	.001	.701	-8.735E-09	9.67	.96	.15	.300	-.083	-.083
	9.0	-6.14	1.48	-4.54	7.23	7.62	2.44	-7.62	-7.735E-04	.001	.701	-8.735E-09	9.67	.96	.15	.300	-.083	-.083
	9.0	3.91	11.83	3.51	7.62	7.62	2.44	7.62	-7.735E-04	.001	.701	-8.735E-09	9.67	.96	.15	.300	-.083	-.083
	9.0	4.53	11.83	3.51	7.62	7.62	2.44	7.62	-7.735E-04	.001	.701	-8.735E-09	9.67	.96	.15	.300	-.083	-.083

TAN/TT = SURFACE DISTANCE FROM TILE LEADING EDGE ALONG TANGENT (FLOW DIRECTION)
XSURF = SURFACE DISTANCE FROM TILE LEADING EDGE ALONG TILE TOP (FLOW DIRECTION)
HT/HE, GAP HEATING RATIO, CORRECTED TO FLAT PLATE
HTG/HEC, CONDUCTION CORRECTED HT/HE

TILE COORDINATES (GAMMA=0.0
XB = X-COOR. FROM TILE LEADING EDGE
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

MACH = 1.23E+01
REYNOLDS NO/FT = 2.21E+06
RE/FT = 2.21E+06
RHO INFINITY = 4.49E-04 (KG/M3)
TINF = 2.39E+02 (K)
TSTEP = 3.27E+02 (K)

TT = 9.51E+02 (K)
PT = 1.21E+07 (N/M2)
T1 = 4.49E-04 (KG/M3)
RHO V)1 = 2.39E+01 (KG/M2-S)
CAP = 2.39E+01 (KG/M2-S)
CONF = STAG

CFHT TEST (92), MDAC-E RSI GAPS, RUN (162) 1973 PAGE 4

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
42	0.0	3.83	11.45	3.87	7.62	1.16	7.62	-6.665E-05	.079	.056	-7.659E-09	9.67	.96	.15	.049	-.011	-.007
43	0.0	3.87	11.49	3.87	7.62	.33	7.62	4.022E-03	.933	.663	5.496E-07	9.67	.96	.15	.477	.634	.431
44	0.0	3.70	11.41	3.70	7.24	2.30	7.24	9.333E-03	1.955	1.427	2.657E-04	9.77	.97	.15		1.470	
45	0.0	3.92	11.54	3.92	3.71	2.36	3.71	8.501E-03	1.675	1.632	2.799E-04	10.47	.99	.15		1.609	
46	0.0	3.95	11.57	3.95	0.00	.30	0.00	8.550E-03	1.872	1.704	2.977E-04	10.72	1.00	.15		1.714	
47	0.0	3.89	11.51	3.89	-3.66	3.00	-3.66	8.775E-03	1.927	1.723	3.108E-04	10.48	.99	.15		1.738	
48	0.0	3.74	11.36	3.76	-7.24	.35	-7.28	8.623E-03	1.661	1.444	2.559E-04	9.76	.97	.15		1.463	
49	0.0	3.73	11.41	3.79	-7.62	.37	-7.62	3.336E-03	.756	.574	3.336E-05	9.67	.96	.15	.406	.561	.378
50	0.0	3.74	11.36	3.76	-7.62	1.15	-7.62	-1.236E-05	.046	.035	-8.354E-09	9.67	.96	.15	.025	-.002	-.001
51																	
52	0.0	3.83	11.42	3.8	-7.62	3.02	-7.62	-6.751E-04	.502	.032	-2.146E-08	9.67	.96	.15	.091	-.114	-.077
53	0.0	7.32	14.94	7.32	7.62	3.72	7.62	-5.616E-04	.077	.005	-5.512E-09	9.67	.96	.15	.078	-.058	-.128
54																	
55	0.0	7.35	14.97	7.35	7.62	1.16	7.62	2.255E-04	.091	.064	2.986E-07	9.67	.96	.15	.102	.036	.051
56	0.0	7.26	14.60	7.26	7.62	.33	7.62	1.774E-03	.404	.268	1.949E-05	9.67	.96	.15	.456	.208	.403
57	0.0	7.27	14.93	7.27	7.33	2.09	7.33	4.332E-03	.387	.645	5.725E-05	9.75	.97	.15		.693	
58	0.0	7.33	14.93	7.33	3.69	1.32	3.69	4.481E-03	.985	.842	7.758E-05	10.47	.99	.15		.849	
59	0.0	7.43	15.09	7.43	0.00	.36	0.00	4.356E-03	.914	.832	7.448E-05	10.72	1.01	.15		.879	
60	0.0	7.53	15.21	7.58	-3.58	3.00	-3.58	4.946E-03	1.044	.934	9.508E-05	10.45	.99	.15		.982	
61	0.0	7.12	14.74	7.12	-7.24	.35	-7.24	4.479E-03	.913	.710	2.437E-05	9.77	.97	.15		.766	
62	0.0	7.26	14.68	7.26	-7.62	.31	-7.62	2.677E-03	.562	.426	2.347E-05	9.67	.96	.15	.616	.450	.592
63	0.0	7.30	14.92	7.30	-7.62	1.11	-7.62	5.961E-04	.135	.074	9.781E-07	9.67	.96	.15	.117	.190	.132
64																	
65																	
66	0.0	7.85	15.24	7.62	7.39	.27	7.14	4.642E-04	.139	.089	7.624E-07	3.80	.97	.15	.123	.076	.109
67	0.0	8.75	15.24	7.62	7.35	1.17	7.35	4.155E-04	.094	.069	5.810E-07	9.74	.97	.15	.106	.067	.096
68	0.0	9.92	15.24	7.62	7.13	2.34	7.13	-1.778E-04	.031	.001	-1.830E-09	9.80	.97	.15	.001	-.029	-.042
69	0.0	11.23	15.24	7.62	7.19	3.71	7.19	7.442E-04	.002	.002	2.760E-08	9.78	.97	.15	.003	.121	.174
70	0.0	7.94	15.24	7.62	3.44	.36	3.44	2.435E-03	.538	.463	2.335E-05	10.50	.99	.15	.546	.468	.551
71																	
72	0.0	10.05	15.24	7.62	3.45	2.44	3.45	1.663E-13	.000	.000	1.983E-25	10.50	.99	.15	.000	.000	.008
73	0.0	11.35	15.24	7.62	3.51	3.74	3.51	2.351E-05	.002	.004	2.133E-09	10.50	.99	.15	.005	.004	.005
74	0.0	9.07	15.24	7.62	0.00	.38	0.00	1.758E-03	.435	.395	1.438E-05	10.72	1.00	.15	.476	.357	.406
75	0.0	3.62	15.24	7.62	0.00	1.15	0.00	1.881E-04	.118	.107	4.141E-07	10.72	1.00	.15	.129	.036	.043
76	0.0	10.07	15.24	7.62	0.00	2.37	0.00	-2.088E-05	.091	.001	-4.295E-13	10.72	1.00	.15	.001	-.034	-.035
77	0.0	11.47	15.24	7.62	0.00	3.74	0.00	3.324E-04	.302	.302	1.422E-08	10.72	1.00	.15	.023	.067	.076
78	0.0	8.44	15.24	7.62	-3.53	.35	-3.53	2.148E-03	.529	.473	2.091E-05	10.49	.99	.15	.506	.426	.434
79	0.0	8.92	15.24	7.62	-3.61	1.17	-3.61	-7.739E-05	.117	.104	-1.574E-08	10.48	.99	.15	.112	-.072	-.062
80	0.0	10.07	15.24	7.62	-3.6	2.42	-3.61	8.463E-05	.039	.008	1.395E-08	10.48	.95	.15	.019	.017	.017
81	0.0	11.41	15.24	7.62	-3.5	3.76	-3.55	6.512E-04	.103	.073	4.183E-08	10.49	.93	.15	.003	.135	.138
82	0.0	7.60	15.24	7.62	-7.33	.31	-7.33	2.259E-03	.531	.410	1.905E-05	9.75	.97	.15	.501	.387	.509
83	0.0	9.59	15.24	7.62	-7.35	1.19	-7.35	2.339E-04	.103	.079	3.361E-07	9.74	.97	.15	.113	.035	.046
84	0.0	9.95	15.24	7.62	-7.35	2.36	-7.35	-4.544E-05	.003	.003	-2.431E-09	9.74	.97	.15	.004	-.038	-.010
85	0.0	11.23	15.24	7.62	-7.33	3.74	-7.33	1.539E-04	.001	.001	2.591E-09	9.75	.97	.15	.031	.027	.036

3.4-324

ORIGINAL PAGE IS OF POOR QUALITY

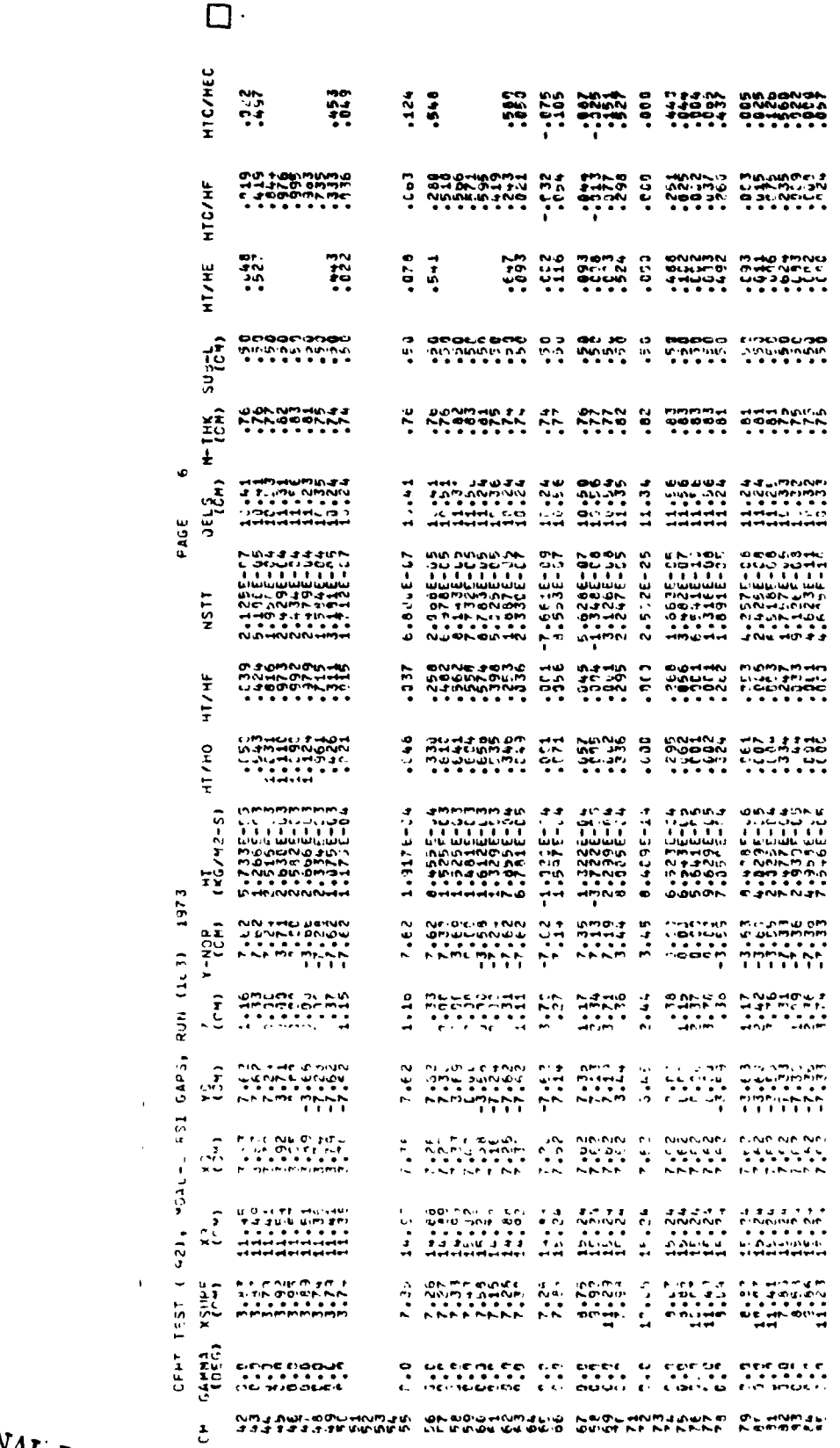
CFHT TEST (92), MCAC-c RSI GAPS, RUN (1c3) 1973 PAGE 5

MACH = 11.290 PI = 9.727E+02(K)
RX = 1.63[illegible]E-01 PI = 5.211E+[illegible](N/M2)
RE/FOOT = 8.89[illegible]E+02 TI = 4.569E+01(K)
RE/METER = 3.48[illegible]E+06 PI = 9.942E+01(N/M2)
HO = 2.619[illegible]E+07(W/M2-K) (RHO V)1 = 1.358E+01(KG/M2-S)
TW = 299.8 (K) GAP = .127 (CM)
STEP = (.000(CM) CONF =IN-L

TAN/TT =0.995 FOR HT/HO TILE COORDINATES(GAMMA=[illegible]
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.) OR 90 DEG.) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CM	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	MI (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
5	0.0	-5.76	1.06	-5.76	7.23	0.00	7.23	1.723E-03	.729	.577	9.450E-05	10.53	.77	.50		.578	
6	0.0	-6.14	1.49	-6.14	7.23	0.00	7.23	1.717E-03	.693	.554	9.035E-05	10.53	.77	.50		.576	
7																	
8	0.0	-6.86	.76	-6.86	7.23	0.00	7.23	1.726E-03	.682	.548	8.953E-05	10.53	.77	.50		.579	
9	0.0	-7.25	.42	-7.25	7.23	0.00	7.23	1.169E-03	.447	.354	3.980E-05	10.53	.77	.50		.589	
10	0.0	-7.62	.07	-7.62	7.23	.07	7.23	9.377E-04	.381	.302	2.992E-05	10.53	.77	.50	.854	.315	.868
11	0.0	-7.85	-.16	-7.85	7.23	.43	7.23	6.277E-04	.279	.221	1.320E-05	10.53	.77	.50	.626	.211	.541
12	0.0	-7.98	-.29	-7.98	7.23	.80	7.23	2.624E-04	1.200	1.000	2.514E-04	11.56	.83	.50		1.011	
13	0.0	-8.06	-.37	-8.06	7.23	1.00	7.23	2.456E-04	1.036	.943	2.200E-04	11.56	.83	.50		.946	
14	0.0	-8.13	-.44	-8.13	7.23	1.00	7.23	2.493E-04	1.054	.959	2.270E-04	11.56	.83	.50		.960	
15	0.0	-8.19	-.50	-8.19	7.23	1.00	7.23	2.541E-04	.964	.878	2.113E-04	11.56	.83	.50		.930	
16	0.0	-8.25	-.56	-8.25	7.23	1.00	7.23	2.414E-04	.916	.834	2.013E-04	11.56	.83	.50		.930	
17	0.0	-7.21	.41	-7.21	0.00	0.00	7.23	2.318E-03	.782	.712	1.304E-04	11.56	.83	.50		.778	
18	0.0	-7.62	.07	-7.62	0.00	.07	7.23	1.443E-03	.534	.486	6.662E-05	11.56	.83	.50	.603	.556	.715
19	0.0	-7.85	-.16	-7.85	0.00	.43	7.23	7.581E-04	.240	.218	1.571E-05	11.56	.83	.50	.307	.292	.376
20	0.0	-7.98	-.29	-7.98	0.00	.80	7.23	3.344E-04	.988	.738	1.625E-04	14.36	.75	.50		.739	
21	0.0	-8.07	-.38	-8.07	0.00	1.00	7.23	2.071E-04	.925	.69	1.394E-04	14.36	.75	.50		.693	
22	0.0	-8.13	-.44	-8.13	0.00	1.00	7.23	2.168E-04	.947	.706	1.453E-04	14.36	.75	.50		.684	
23	0.0	-8.19	-.50	-8.19	0.00	1.00	7.23	2.223E-04	.872	.649	1.371E-04	14.36	.75	.50		.701	
24	0.0	-7.26	.38	-7.26	0.00	.48	7.24	1.635E-03	.606	.451	6.895E-05	14.36	.75	.50		.507	
25	0.0	-7.62	.03	-7.62	0.00	.47	7.24	1.395E-03	.502	.374	4.611E-05	14.36	.75	.50	.629	.409	.807
26	0.0	-8.06	-.41	-8.06	0.00	.43	7.24	8.296E-04	.337	.251	1.976E-05	14.36	.75	.50	.556	.262	.516
27																	
28	0.0	0.00	7.62	.00	7.62	2.30	7.62	-2.107E-04	.002	.002	-3.832E-08	10.41	.76	.50	.882	-.078	-.099
29	0.0	0.01	7.62	.01	7.62	1.14	7.62	-3.379E-06	.049	.039	-1.239E-08	10.41	.76	.50	.657	-.001	-.002
30	0.0	0.03	7.62	.03	7.62	.77	7.62	9.686E-04	.434	.339	3.119E-05	10.41	.76	.50	.502	.320	.456
31	0.0	0.05	7.62	.05	7.62	.40	7.62	2.030E-03	.664	.603	1.361E-04	10.61	.76	.50		.702	
32	0.0	0.08	7.62	.08	7.62	.03	7.62	2.979E-03	1.212	1.263	2.897E-04	11.32	.82	.50		1.066	
33	0.0	0.00	7.62	.00	7.62	.00	7.62	2.756E-03	1.169	1.064	2.786E-04	11.56	.83	.50		1.092	
34	0.0	0.00	7.62	.00	-3.54	3.54	-3.54	2.759E-03	1.169	1.038	2.721E-04	11.25	.81	.50		1.020	
35	0.0	0.00	7.62	.00	-7.24	.00	-7.24	2.1[illegible]E-03	.897	.667	1.374E-04	1.35	.75	.50		.688	
36	0.0	0.00	7.62	.00	-7.62	.41	-7.62	9.190E-04	.364	.266	2.321E-05	10.24	.74	.50	.405	.284	.417
37	0.0	0.00	7.62	.00	-7.62	1.17	-7.62	1.419E-04	.030	.022	2.956E-07	10.24	.74	.50	.034	.044	.064
38																	
39																	
40																	
41	0.0	7.76	11.38	7.76	7.62	3.72	7.62	-1.945E-04	.003	.002	-3.884E-08	10.41	.76	.50	.893	-.064	-.076



ORIGINAL PAGE IS
OF POOR QUALITY

CFHT TEST (92), MDAC-2 RSI GAPS, RUN (164) 1973 PAGE 7

SPECIFIC HEAT CORRECTED

CM	GAMMA (DEG)	XSURF (CM)	X3 (CM)	XC (CM)	Z (CM)	YC (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	90.00	-7.76	4.36	-6.14	3.00	7.23	7.23	7.139E-03	1.582	1.156	1.715E-04	9.77	.97	.15		1.156	
2	90.00	-6.14	1.48	-4.52	1.90	7.23	7.23	7.356E-03	1.630	1.191	1.766E-04	9.77	.97	.15		1.174	
3	90.00	-4.52	.00	-2.90	1.90	7.23	7.23	7.284E-03	1.614	1.179	1.748E-04	9.77	.97	.15		1.179	
4	90.00	-2.90	-1.48	-1.28	1.90	7.23	7.23	7.217E-03	1.599	1.168	1.732E-04	9.77	.97	.15	.812	.769	.776
5	90.00	-1.28	-2.96	.34	1.90	7.23	7.23	7.156E-03	1.586	1.158	1.717E-04	9.77	.97	.15	.513	.592	.449
6	90.00	.34	-4.44	1.96	1.90	7.23	7.23	7.100E-03	1.573	1.149	1.704E-04	9.77	.97	.15		.543	
7	90.00	1.96	-5.92	3.58	1.90	7.23	7.23	7.049E-03	1.562	1.141	1.691E-04	9.77	.97	.15		.513	
8	90.00	3.58	-7.40	5.20	1.90	7.23	7.23	7.003E-03	1.552	1.133	1.680E-04	9.77	.97	.15		.488	
9	90.00	5.20	-8.88	6.82	1.90	7.23	7.23	6.960E-03	1.542	1.126	1.670E-04	9.77	.97	.15	.613	.538	.829
10	90.00	6.82	-10.36	8.44	1.90	7.23	7.23	6.921E-03	1.534	1.120	1.660E-04	10.72	1.00	.15	.258	.438	.287

TAN/TT =0.29# FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION)
HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

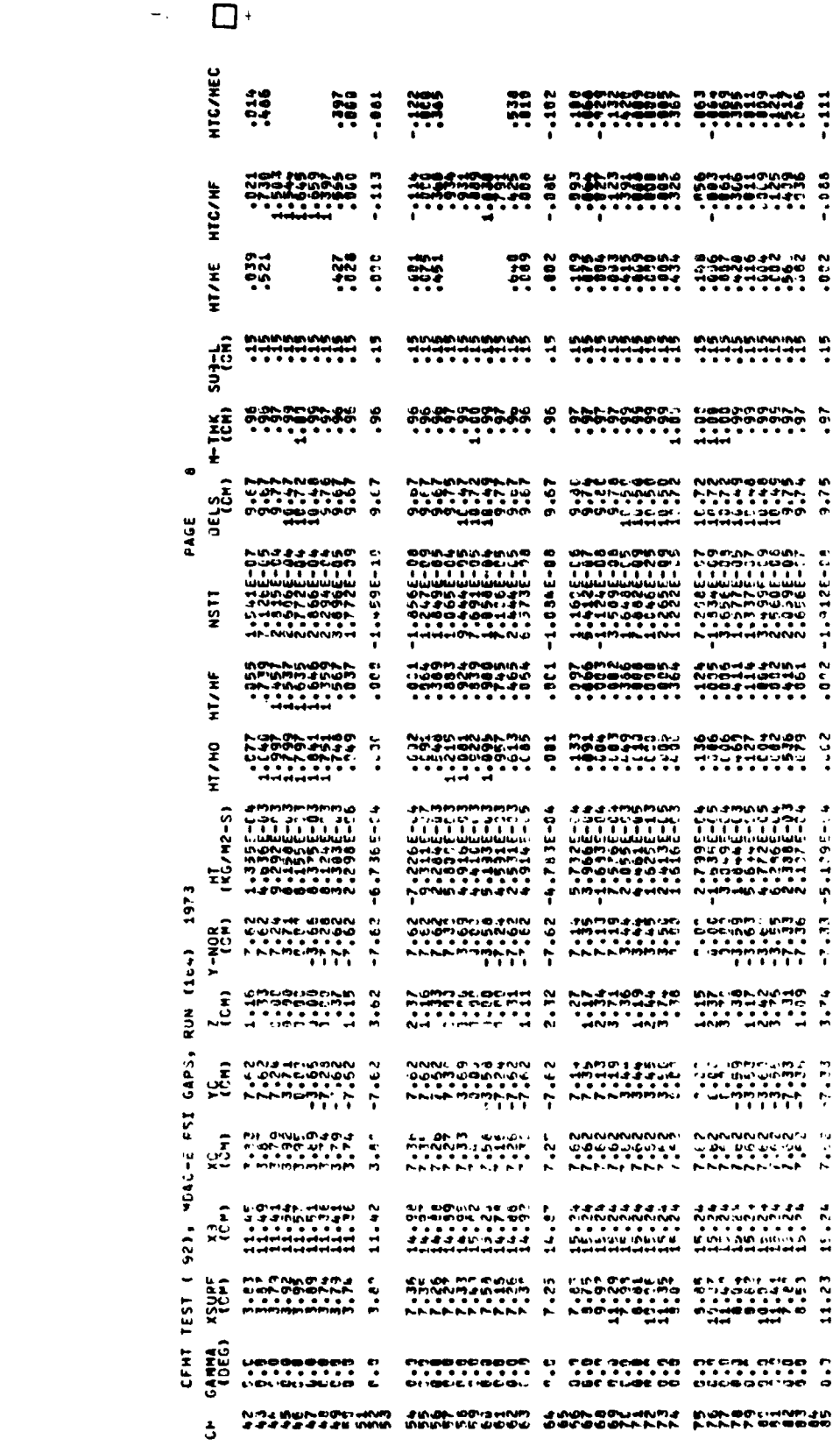
TILE COORDINATES(GAMMA=90.0
X9 = X-COOR. FROM TILE LEADING EDGE
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

CM	GAMMA (DEG)	XSURF (CM)	X3 (CM)	XC (CM)	Z (CM)	YC (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	90.00	-7.76	4.36	-6.14	3.00	7.23	7.23	7.139E-03	1.582	1.156	1.715E-04	9.77	.97	.15		1.156	
2	90.00	-6.14	1.48	-4.52	1.90	7.23	7.23	7.356E-03	1.630	1.191	1.766E-04	9.77	.97	.15		1.174	
3	90.00	-4.52	.00	-2.90	1.90	7.23	7.23	7.284E-03	1.614	1.179	1.748E-04	9.77	.97	.15		1.179	
4	90.00	-2.90	-1.48	-1.28	1.90	7.23	7.23	7.217E-03	1.599	1.168	1.732E-04	9.77	.97	.15	.812	.769	.776
5	90.00	-1.28	-2.96	.34	1.90	7.23	7.23	7.156E-03	1.586	1.158	1.717E-04	9.77	.97	.15	.513	.592	.449
6	90.00	.34	-4.44	1.96	1.90	7.23	7.23	7.100E-03	1.573	1.149	1.704E-04	9.77	.97	.15		.543	
7	90.00	1.96	-5.92	3.58	1.90	7.23	7.23	7.049E-03	1.562	1.141	1.691E-04	9.77	.97	.15		.513	
8	90.00	3.58	-7.40	5.20	1.90	7.23	7.23	7.003E-03	1.552	1.133	1.680E-04	9.77	.97	.15		.488	
9	90.00	5.20	-8.88	6.82	1.90	7.23	7.23	6.960E-03	1.542	1.126	1.670E-04	9.77	.97	.15	.613	.538	.829
10	90.00	6.82	-10.36	8.44	1.90	7.23	7.23	6.921E-03	1.534	1.120	1.660E-04	10.72	1.00	.15	.258	.438	.287

CM	GAMMA (DEG)	XSURF (CM)	X3 (CM)	XC (CM)	Z (CM)	YC (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	90.00	-7.76	4.36	-6.14	3.00	7.23	7.23	7.139E-03	1.582	1.156	1.715E-04	9.77	.97	.15		1.156	
2	90.00	-6.14	1.48	-4.52	1.90	7.23	7.23	7.356E-03	1.630	1.191	1.766E-04	9.77	.97	.15		1.174	
3	90.00	-4.52	.00	-2.90	1.90	7.23	7.23	7.284E-03	1.614	1.179	1.748E-04	9.77	.97	.15		1.179	
4	90.00	-2.90	-1.48	-1.28	1.90	7.23	7.23	7.217E-03	1.599	1.168	1.732E-04	9.77	.97	.15	.812	.769	.776
5	90.00	-1.28	-2.96	.34	1.90	7.23	7.23	7.156E-03	1.586	1.158	1.717E-04	9.77	.97	.15	.513	.592	.449
6	90.00	.34	-4.44	1.96	1.90	7.23	7.23	7.100E-03	1.573	1.149	1.704E-04	9.77	.97	.15		.543	
7	90.00	1.96	-5.92	3.58	1.90	7.23	7.23	7.049E-03	1.562	1.141	1.691E-04	9.77	.97	.15		.513	
8	90.00	3.58	-7.40	5.20	1.90	7.23	7.23	7.003E-03	1.552	1.133	1.680E-04	9.77	.97	.15		.488	
9	90.00	5.20	-8.88	6.82	1.90	7.23	7.23	6.960E-03	1.542	1.126	1.670E-04	9.77	.97	.15	.613	.538	.829
10	90.00	6.82	-10.36	8.44	1.90	7.23	7.23	6.921E-03	1.534	1.120	1.660E-04	10.72	1.00	.15	.258	.438	.287

CM	GAMMA (DEG)	XSURF (CM)	X3 (CM)	XC (CM)	Z (CM)	YC (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	90.00	-7.76	4.36	-6.14	3.00	7.23	7.23	7.139E-03	1.582	1.156	1.715E-04	9.77	.97	.15		1.156	
2	90.00	-6.14	1.48	-4.52	1.90	7.23	7.23	7.356E-03	1.630	1.191	1.766E-04	9.77	.97	.15		1.174	
3	90.00	-4.52	.00	-2.90	1.90	7.23	7.23	7.284E-03	1.614	1.179	1.748E-04	9.77	.97	.15		1.179	
4	90.00	-2.90	-1.48	-1.28	1.90	7.23	7.23	7.217E-03	1.599	1.168	1.732E-04	9.77	.97	.15	.812	.769	.776
5	90.00	-1.28	-2.96	.34	1.90	7.23	7.23	7.156E-03	1.586	1.158	1.717E-04	9.77	.97	.15	.513	.592	.449
6	90.00	.34	-4.44	1.96	1.90	7.23	7.23	7.100E-03	1.573	1.149	1.704E-04	9.77	.97	.15		.543	
7	90.00	1.96	-5.92	3.58	1.90	7.23	7.23	7.049E-03	1.562	1.141	1.691E-04	9.77	.97	.15		.513	
8	90.00	3.58	-7.40	5.20	1.90	7.23	7.23	7.003E-03	1.552	1.133	1.680E-04	9.77	.97	.15		.488	
9	90.00	5.20	-8.88	6.82	1.90	7.23	7.23	6.960E-03	1.542	1.126	1.670E-04	9.77	.97	.15	.613	.538	.829
10	90.00	6.82	-10.36	8.44	1.90	7.23	7.23	6.921E-03	1.534	1.120	1.660E-04	10.72	1.00	.15	.258	.438	.287

3.4-127



CFHT TEST (92), MDAC-E RSI GAPS RUN (163) 1973 PAGE 9

MACH = 10.290
RX E06 = 1.526E-01
RL E06 = 8.807E-02
RE/METER = 3.467E+06
HO = 2.619E+08(W/M2-K)
TW = 295.9 (K)
STEP = 0.000(CM)

TT = 9.721E+02(K)
PI = 5.174E+06(N/M2)
T1 = 4.566E+01(K)
P1 = 9.872E+01(N/M2)
(RHO V)1 = 1.051E+01(KG/M2-S)
GAP = .229 (CM)
CONF =STAG

TAW/TT =1.89E FOR HT/HO
XSURF =SURFACE DISTANCE
(FLOW DIRECTION)
(0.0 OR 90 DEG)

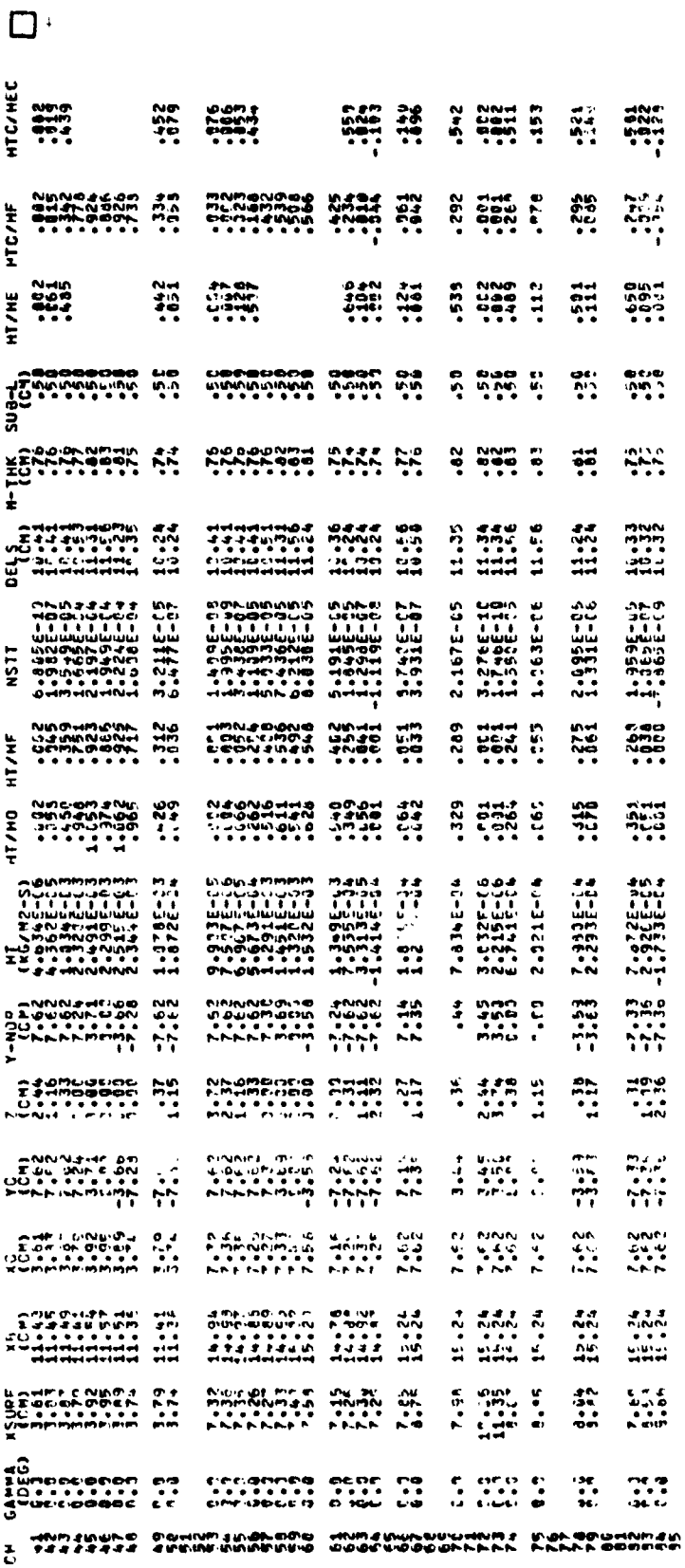
TILE COORDINATES(GAMMA=0.0
X0 = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLAT
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	X0 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
5	0.0	-5.75	1.90	-5.76	7.23	0.00	7.23	1.979E-03	.837	.663	1.256E-04	10.53	.77	.50		.664	
6	0.0	-6.14	1.48	-6.14	7.23	0.00	7.23	2.018E-03	.849	.672	1.298E-04	10.53	.77	.50		.677	
7	0.0	-6.49	1.14	-6.49	7.23	0.00	7.23	2.079E-05	.009	.007	1.386E-06	10.53	.77	.50		.007	
9	0.0	-6.86	.75	-6.86	7.23	0.00	7.23	2.356E-03	.960	.761	1.714E-04	10.53	.77	.50		.790	
10	0.0	-7.21	.42	-7.21	7.23	0.00	7.23	1.958E-03	.773	.612	1.152E-04	10.53	.77	.50		.660	
11	0.0	-7.62	0.00	-7.62	7.23	.07	7.23	1.778E-03	.668	.529	8.996E-05	10.53	.77	.50	.64	.597	.903
12	0.0	-8.05	0.00	-7.62	7.23	.43	7.23	1.313E-03	.446	.353	4.433E-05	10.53	.77	.50	.577	.448	.667
13	0.0	-5.68	1.94	-5.68	0.00	0.00	0.00	2.030E-03	.686	.606	1.611E-04	11.56	.83	.50		.805	
14	0.0	-6.06	1.56	-6.06	0.00	0.00	0.00	1.916E-03	.815	.742	1.360E-04	11.56	.83	.50		.738	
15	0.0	-6.43	1.17	-6.43	0.00	0.00	0.00	1.912E-03	.807	.735	1.343E-04	11.56	.83	.50		.737	
16	0.0	-6.85	.77	-6.85	0.00	0.00	0.00	1.750E-03	.697	.634	1.362E-04	11.56	.83	.50		.674	
17	0.0	-7.21	.41	-7.21	0.00	0.00	0.00	1.432E-03	.524	.477	6.396E-05	11.56	.83	.50		.540	
18	0.0	-7.62	0.00	-7.62	0.00	.07	0.00	1.314E-03	.351	.320	3.100E-05	11.56	.83	.50	.670	.391	.724
19	0.0	-8.05	0.00	-7.62	0.00	.43	0.00	7.314E-04	.222	.202	1.408E-05	11.56	.83	.50	.423	.281	.521
20	0.0	-5.74	1.85	-5.74	-7.24	0.00	-7.24	2.432E-03	1.016	.758	1.764E-04	10.36	.75	.50		.767	
21	0.0	-6.07	1.55	-6.07	-7.24	0.00	-7.24	2.262E-03	1.000	.745	1.597E-04	10.36	.75	.50		.707	
22	0.0	-6.44	1.19	-6.44	-7.24	0.00	-7.24	2.427E-03	1.061	.790	1.834E-04	10.36	.75	.50		.766	
23	0.0	-6.89	.74	-6.89	-7.24	0.00	-7.24	2.614E-03	1.032	.769	1.921E-04	10.36	.75	.50		.824	
24	0.0	-7.26	.36	-7.26	-7.24	0.00	-7.24	2.035E-03	.867	.601	1.181E-04	10.36	.75	.50		.640	
25	0.0	-7.62	0.00	-7.62	-7.24	.07	-7.24	1.493E-03	.605	.451	6.434E-05	10.36	.75	.50	.750	.471	.726
26	0.0	-8.05	0.00	-7.62	-7.24	.43	-7.24	8.529E-04	.377	.281	2.291E-05	10.36	.75	.50	.468	.269	.415
27																	
28	0.0	0.00	7.62	0.00	7.62	2.36	7.62	-1.915E-06	.001	.001	-1.910E-08	10.41	.76	.50	.002	-.063	-.097
29	0.0	0.00	7.62	0.00	7.62	1.14	7.62	1.523E-05	.052	.041	5.940E-08	10.41	.76	.50	.065	.805	.088
30	0.0	0.00	7.62	0.00	7.62	.33	7.62	8.293E-04	.373	.291	2.310E-05	10.41	.76	.50	.462	.274	.421
31	0.0	0.00	7.62	0.00	7.23	0.00	7.23	1.948E-03	.802	.634	1.181E-04	10.51	.76	.50		.602	
32	0.0	0.00	7.62	0.00	3.63	0.00	3.63	2.699E-03	1.141	1.002	2.505E-04	11.32	.82	.50		1.003	
33	0.0	0.00	7.62	0.00	0.00	0.00	0.00	2.359E-03	1.015	.924	2.109E-04	11.56	.83	.50		.920	
34	0.0	0.00	7.62	0.00	-3.56	0.00	-3.56	2.610E-03	1.123	.981	2.449E-04	11.25	.81	.50		.965	
35	0.0	0.00	7.62	0.00	-7.27	0.00	-7.27	2.250E-03	.931	.693	1.496E-04	10.35	.75	.50		.740	
36	0.0	0.00	7.62	0.00	-7.62	.41	-7.62	9.764E-04	.387	.283	2.644E-05	10.24	.74	.50	.416	.332	.427
37	0.0	0.00	7.62	.00	-7.62	1.17	-7.62	2.335E-04	.056	.041	7.921E-07	10.24	.74	.50	.060	.063	.089
38																	
39																	
40	0.0	3.76	11.38	3.76	7.62	3.72	7.62	9.985E-05	.002	.001	1.139E-08	10.41	.76	.50	.002	.032	.041

3.4-329



ORIGINAL PAGE IS
OF POOR QUALITY

CFHT TEST (92), MDAC-E RSI GAPS, RUN (160) 1973 PAGE 11

MACH = 10.290 TT = 9.621E+02(K)
RX E06 = 3.714E-01 PT = 1.217E+07(N/M2)
RL E06 = 2.143E-01 T1 = 4.534E+01(K)
RE/METER = [illegible] P1 = 2.374E+02(N/M2)
HO = [illegible](W/M2-K) (RHO V)1 = 2.536E+01(KG/M2-S)
TW = [illegible] (K) GAP = .229 (CM)
STEP = 0.008(CM) CONF =STAG

TAW/TT =0.99F FOR HT/HO
XSURF =SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG)

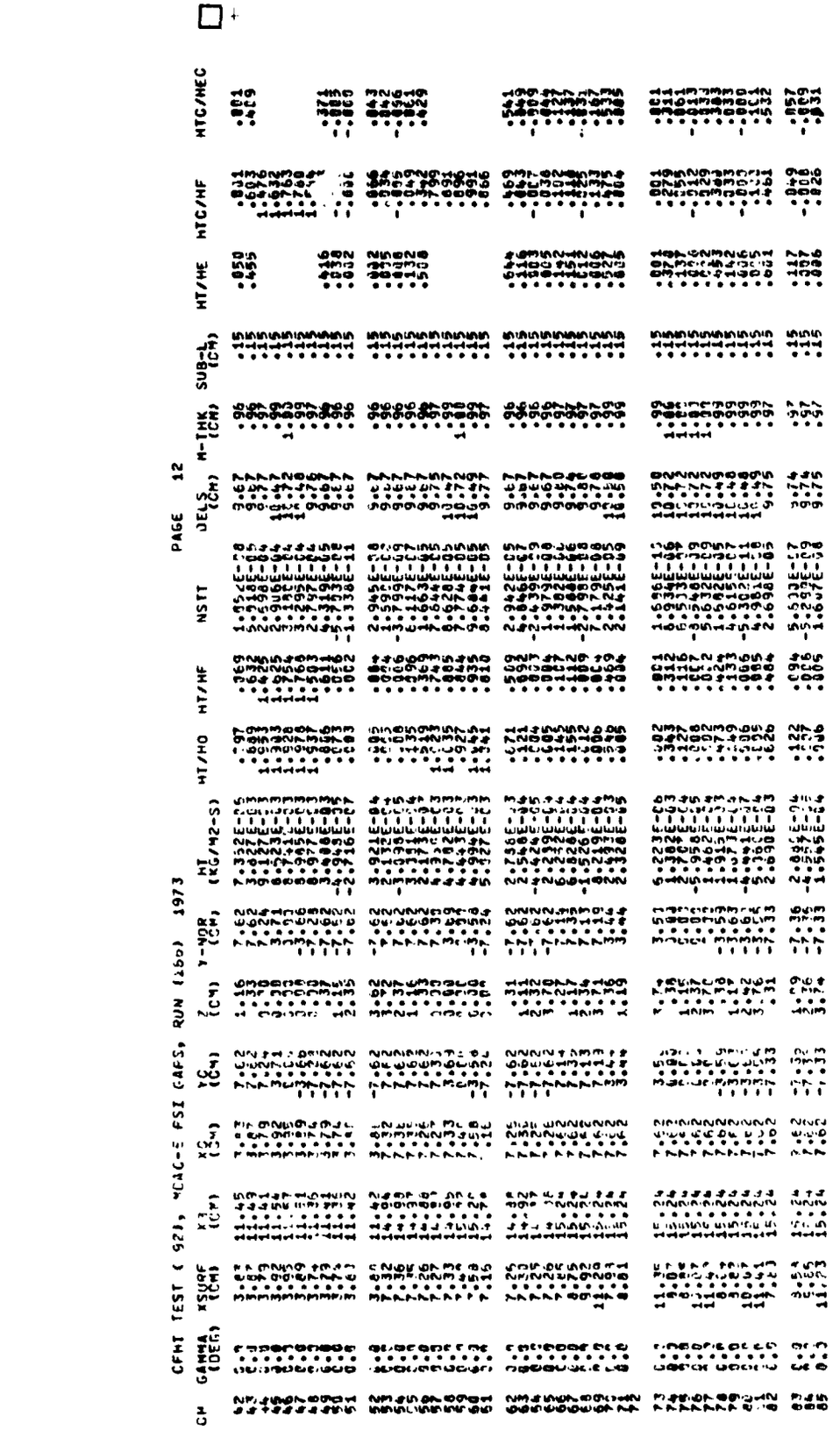
TILE COORDINATES(GAMMA=0.0
XB = X-COOR FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
5	0.0	-5.76	1.86	-5.76	7.23	[illegible]	7.23	8.611E-03	1.909	1.395	2.491E-04	9.77	.97	.15		1.394	
6	0.0	-5.14	1.49	-6.14	7.23	[illegible]	7.23	8.974E-03	1.956	1.429	2.660E-04	9.77	.97	.15		1.453	
7																	
9	0.0	-6.85	.76	[illegible]	7.23	[illegible]	7.23	1.057E-02	2.249	1.643	3.621E-04	9.77	.97	.15		1.711	
10	0.0	-7.2[illegible]	.42	-7.26	7.23	[illegible]	7.23	9.968E-03	2.693	1.527	3.157E-04	9.77	.97	.15		1.614	
11	0.0	-7.62	[illegible]	-7.62	7.23	.07	7.23	9.438E-03	1.964	1.435	2.808E-04	9.77	.97	.15	.948	1.528	.947
12	0.0	[illegible]	[illegible]	[illegible]	7.23	.43	7.23	6.144E-03	1.226	.895	[illegible]E-04	9.77	.97	.15	.586	.995	.616
13	0.0	-5.68	1.94	-5.68	[illegible]	[illegible]	[illegible]	9.284E-03	2.055	1.878	[illegible]E-04	10.72	1.00	.15		1.873	
14	0.0	[illegible]	1.46	[illegible]	[illegible]	[illegible]	[illegible]	8.745E-03	1.961	1.784	3.236E-04	10.72	1.00	.15		1.764	
15	0.0	-6.43	1.15	-6.43	[illegible]	[illegible]	[illegible]	8.926E-03	1.969	1.792	3.316E-04	10.72	1.00	.15		1.800	
16	0.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.916E-03	1.871	1.793	3.149E-04	10.72	1.00	.15		1.790	
17	0.0	-7.21	.41	-7.21	[illegible]	[illegible]	[illegible]	8.171E-03	1.663	1.514	2.565E-04	10.72	1.00	.15		1.642	
18	0.0	-7.62	[illegible]	-7.62	[illegible]	.07	[illegible]	5.915E-03	1.133	1.034	1.231E-04	10.72	1.00	.15	.663	1.193	.724
19	0.0	[illegible]	[illegible]	-7.62	[illegible]	.43	[illegible]	3.535E-03	.524	.477	3.546E-05	10.72	1.00	.15	.315	.723	.439
20	0.0	-5.74	[illegible]	-5.74	-7.24	[illegible]	-7.24	9.636E-03	2.136	1.662	3.341E-04	9.77	.97	.15		1.672	
21	0.0	[illegible]	[illegible]	[illegible]	-7.24	[illegible]	-7.24	9.562E-03	2.179	1.695	3.361E-04	9.77	.97	.15		1.649	
22	0.0	-6.44	1.18	-6.44	-7.24	[illegible]	-7.24	1.045E-02	2.342	1.822	[illegible]E-04	9.77	.97	.15		1.832	
23	0.0	[illegible]	.74	[illegible]	-7.24	[illegible]	-7.24	1.146E-02	2.375	1.848	4.391E-04	9.77	.97	.15		1.976	
24	0.0	-7.26	.36	-7.26	-7.24	[illegible]	-7.24	9.906E-03	2.055	1.599	3.305E-04	9.77	.97	.15		1.710	
25	0.0	-7.62	[illegible]	-7.62	-7.24	.07	-7.24	7.273E-03	1.539	1.190	1.795E-04	9.77	.97	.15	.744	1.256	.739
26	0.0	-8.05	[illegible]	-7.62	-7.24	.43	-7.24	4.359E-03	.962	.742	5.935E-05	9.77	.97	.15	.439	.700	.407
27	0.0	[illegible]	7.62	[illegible]	7.62	3.74	7.62	2.147E-04	.063	.032	8.257E-09	9.67	.96	.15	.0[illegible]1	.034	.026
28	0.0	[illegible]	7.62	[illegible]	7.62	2.36	7.62	-4.255E-05	.004	.003	-2.440E-09	9.67	.96	.15	.002	-.007	-.005
29	0.0	[illegible]	7.62	[illegible]	7.62	1.14	7.62	1.141E-04	.094	.067	1.582E-07	9.67	.95	.15	.053	.018	.014
30	0.0	[illegible]	7.62	[illegible]	7.62	.33	7.62	3.073E-03	.723	.514	3.277E-05	9.67	.96	.15	.410	.404	.368
31	0.0	[illegible]	7.62	[illegible]	7.23	[illegible]	7.23	8.157E-03	1.762	1.281	[illegible].168E-04	9.76	.97	.15		1.315	
32	0.0	[illegible]	7.62	[illegible]	3.63	[illegible]	3.63	9.541E-03	2.136	1.302	3.566E-04	10.48	.99	.15		1.818	
33	0.0	[illegible]	7.62	[illegible]	[illegible]	[illegible]	[illegible]	9.534E-03	2.111	1.922	3.800E-04	10.72	1.00	.15		1.923	
34	0.0	[illegible]	7.62	[illegible]	-3.5[illegible]	[illegible]	-3.54	9.615E-03	2.134	.911	3.732E-04	10.49	.99	.15		1.869	
35	0.0	[illegible]	7.62	[illegible]	-7.27	[illegible]	-7.27	8.716E-03	1.889	1.[illegible]	2.658E-04	9.76	.97	.15		1.560	
36	0.0	[illegible]	7.62	[illegible]	-7.62	.41	-7.62	2.951E-03	.71[illegible]		3.331E-05	9.67	.96	.15	.376	.531	.334
37	0.0	[illegible]	7.62	[illegible]	-7.62	1.17	-7.62	-4.595E-06	.001		-5.326E-09	9.67	.96	.15	.003	-.001	-.001
38	0.0	[illegible]	7.62	[illegible]	-7.62	2.39	-7.62	1.572E-06	.00[illegible]		4.322E-13	9.67	.96	.15	.000	.000	.000
39	0.0	[illegible]	7.62	[illegible]	-7.62	3.76	-7.62	4.801E-04	.001		3.034E-09	9.67	.96	.15	.003	.067	.045
40																	
41	[illegible]	3.61	11.47	3.91	[illegible]	2.44	7.62	-7.535E-04	.003	.0[illegible]	[illegible].867E-08	9.67	.96	.15	.004	-.121	-.082

3.3-331



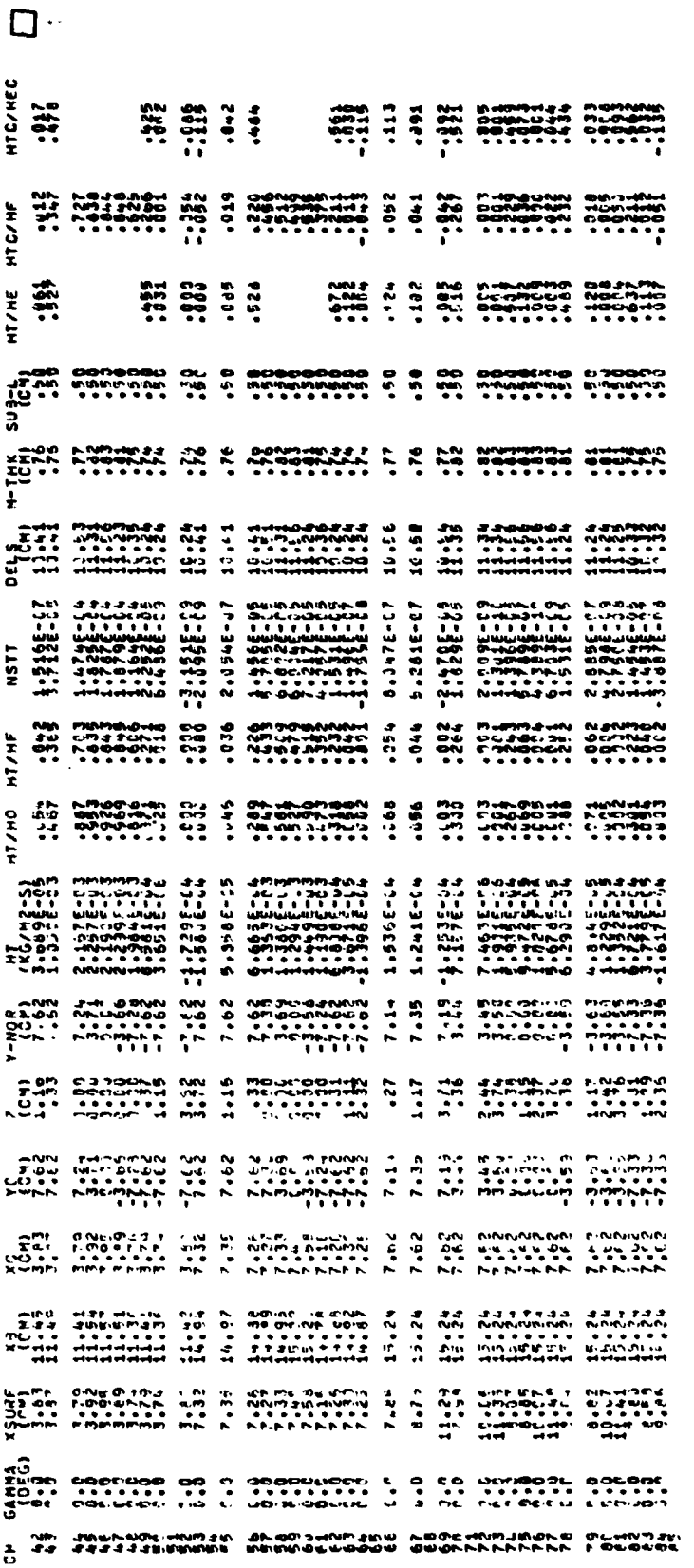
CFHT TEST (92), MDAC-E RSI GAPS, RUN (167) 1973 PAGE 13

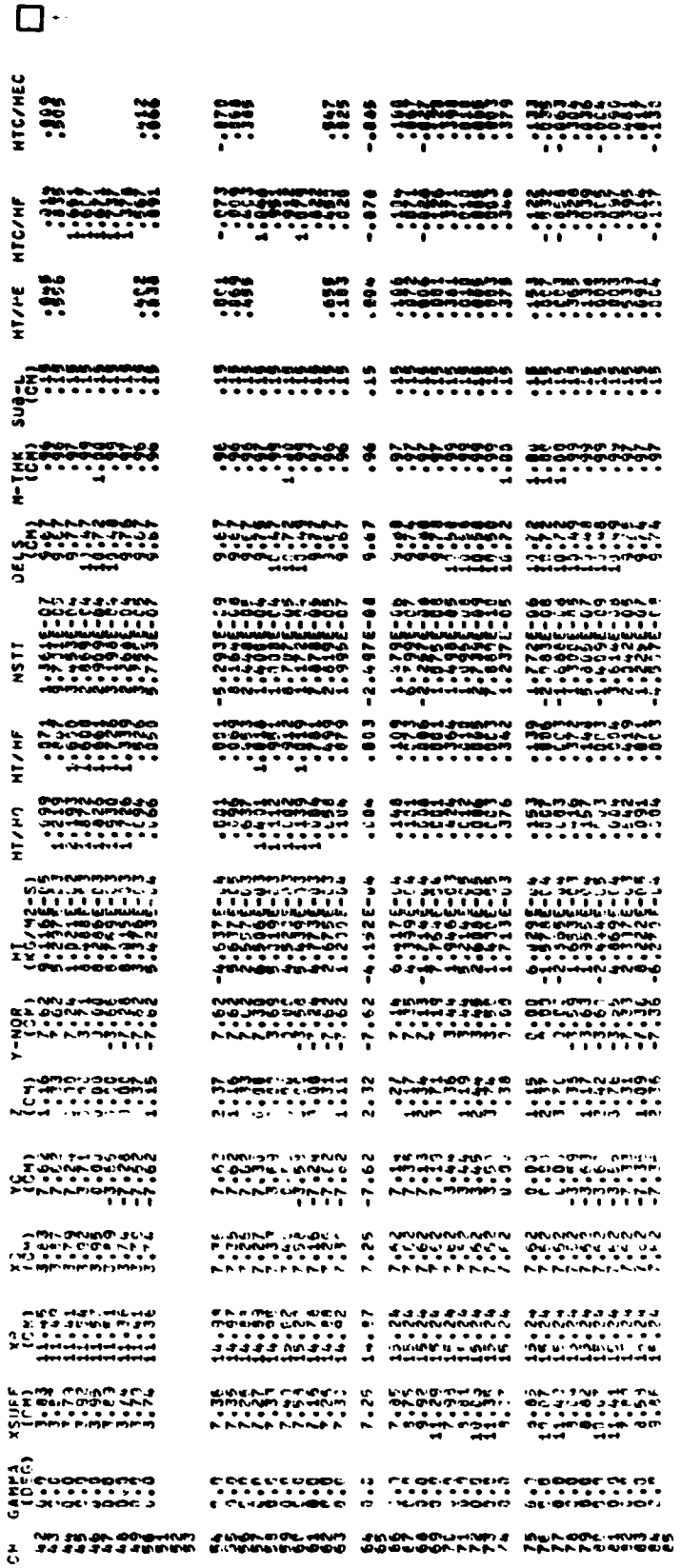
MACH = 16.290 TT = 9.848E+02(K)
RX EQG = 1.448E-01 PI = 5.158E+06(N/M2)
RL EQG = 6.561E-12 TI = 4.630E+01(K)
REYNOLDS = 3.377E+06 PI = 3.822E+01(N/M2)
HO = 2.619E+07(W/M2-K) (RHO V)1 = 1.038E+01(KG/M2-S)
TW = 297.00 (K) GAP = .229 (CM)
STEP = 0.000(CM) CONF =IN-L

TAW/TT =0.996 FOR HT/HO TILE COORDINATES(GAMMA=0.0
XSURF =SURFACE DISTANCE XB = X-COOR. FROM TILE L.E.
(FLOW DIRECTION) XC = X-COOR. FROM TILE CENTER
(0.0 OR 90 DEG.) YC = Y-COOR. FROM TILE CENTER SPECIFIC HEAT CORRECTED

HT/HF, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	XB (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HI (KG/M2-S)	HT/HO	HT/HF	NSTT	OELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
5	0.0	-5.76	1.96	-9.70	7.23	3.00	7.23	1.618E-03	.683	.541	8.766E-05	10.53	.77	.50		.543	
6	0.0	-6.14	1.48	-9.14	7.23	3.00	7.23	1.583E-03	.664	.526	8.064E-05	10.53	.77	.50		.531	
7	0.0	-6.48	1.14	-9.48	7.23	3.00	7.23	1.967E-03	.608	.807	1.257E-04	10.53	.77	.50		.807	
9	0.0	-6.85	.76	-9.85	7.23	3.00	7.23	1.686E-03	.683	.541	8.826E-05	10.53	.77	.50		.566	
10	0.0	-7.23	.42	-7.23	7.23	3.00	7.23	1.252E-03	.480	.301	4.893E-05	10.53	.77	.50		.420	
11	0.0	-7.62	.01	-7.62	7.23	.97	7.23	1.124E-03	.406	.322	3.502E-05	10.53	.77	.50	.846	.377	.998
12	0.0	-8.06	-.01	-7.62	7.23	.43	7.23	9.201E-04	.300	.237	2.114E-05	10.53	.77	.50	.624	.309	.735
13	0.0	-5.68	1.94	-5.68	4.80	3.00	7.23	2.356E-03	.869	.791	1.575E-04	11.56	.83	.50		.793	
14	0.0	-6.06	1.56	-6.06	4.80	3.00	7.23	1.922E-03	.819	.746	1.387E-04	11.56	.83	.50		.741	
15	0.0	-6.43	1.19	-6.43	4.80	3.00	7.23	1.959E-03	.825	.751	1.424E-04	11.56	.83	.50		.755	
16	0.0	-6.80	.77	-6.80	4.80	3.00	7.23	1.892E-03	.754	.687	1.250E-04	11.56	.83	.50		.725	
17	0.0	-7.21	.41	-7.21	4.80	3.00	7.23	1.584E-03	.607	.553	8.474E-05	11.56	.83	.50		.614	
18	0.0	-7.63	.01	-7.63	4.80	.97	7.23	1.119E-03	.409	.372	4.824E-05	11.56	.83	.50	.673	.433	.786
19	0.0	-8.05	-.01	-7.62	4.80	.43	7.23	6.568E-04	.212	.193	1.227E-05	11.56	.83	.50	.349	.251	.415
20	0.0	-5.67	1.95	-5.67	-7.24	3.00	7.24	2.071E-03	.864	.646	1.291E-04	10.36	.76	.50		.655	
21	0.0	-6.04	1.58	-6.04	-7.24	3.00	7.24	1.845E-03	.829	.617	1.181E-04	10.36	.76	.50		.583	
22	0.0	-6.44	1.18	-6.44	-7.24	3.00	7.24	1.984E-03	.872	.650	1.284E-04	10.36	.76	.50		.626	
23	0.0	-6.85	.79	-6.85	-7.24	1.20	7.24	2.119E-03	.836	.623	1.276E-04	10.36	.76	.50		.666	
24	0.0	-7.26	.38	-7.26	-7.24	.80	7.24	1.644E-03	.637	.474	7.562E-05	10.36	.76	.50		.519	
25	0.0	-7.66	.01	-7.66	-7.24	.80	7.24	1.322E-03	.513	.382	4.891E-05	10.36	.76	.50	.686	.417	.883
26	0.0	-8.05	-.01	-7.62	-7.24	.43	7.24	8.872E-04	.345	.257	2.210E-05	10.36	.76	.50	.542	.283	.597
27	0.0	-5.67	1.95	-5.67	-7.62	3.00	7.62	2.355E-03	.964	.720	1.611E-04	10.41	.76	.50	.000	.726	.000
28	0.0	-6.04	1.58	-6.04	-7.62	3.00	7.62	2.517E-03	.000	.000	0.000E+00	10.41	.76	.50	.000	.000	.000
29	0.0	-6.44	1.18	-6.44	-7.62	3.00	7.62	2.171E-03	.041	.697	1.697E-04	10.41	.76	.50	.000	.000	.000
30	0.0	-6.85	.79	-6.85	-7.62	1.20	7.62	2.829E-03	.353	.276	2.991E-05	10.41	.76	.50	.432	.259	.443
31	0.0	-7.26	.38	-7.26	-7.62	.80	7.62	2.179E-03	.718	.568	9.595E-05	10.41	.76	.50		.589	
32	0.0	-7.66	.01	-7.62	-7.62	.80	7.62	2.423E-03	.898	.713	2.168E-04	11.32	.76	.50		.908	
33	0.0	-5.68	1.94	-5.68	-7.27	3.00	7.62	2.253E-03	.957	.871	1.699E-04	11.56	.83	.50		.868	
34	0.0	-6.06	1.56	-6.06	-7.27	3.00	7.62	2.249E-03	.972	.884	1.644E-04	11.56	.83	.50		.851	
35	0.0	-6.43	1.19	-6.43	-7.27	0.80	7.62	1.837E-03	.795	.723	1.180E-04	10.24	.76	.50		.570	
36	0.0	-6.80	.77	-6.80	-7.27	.80	7.62	1.999E-03	.865	.787	1.484E-04	10.24	.76	.50		.714	
37	0.0	-7.21	.41	-7.21	-7.62	.41	7.62	2.316E-03	.998	.908	1.996E-04	10.24	.76	.50	.416	.769	.369
38	0.0	-7.63	.01	-7.62	-7.62	.41	7.62	2.014E-03	.868	.790	1.496E-04	10.24	.76	.50	.360	.668	.318
39	0.0	-8.05	-.01	-7.62	-7.62	.39	7.62	-1.317E-04	-.057	-.052	-1.217E-05	10.24	.76	.50	.051	-.055	-.102
40	0.0	3.76	11.38	3.76	7.62	3.72	7.62	8.690E-05	.001	.001	7.941E-09	10.41	.76	.50	.001	.029	.048
41	0.0	3.81	11.43	3.81	7.62	2.44	7.62	3.531E-04	.003	.002	8.274E-10	10.41	.76	.50	.003	.001	.002





ORIGINAL PAGE IS
OF POOR QUALITY

CFHT TEST (92), MDAC-E RSI GAPS, RUN (159) 1973 PAGE 17

MACH	= 10.29?	TT	= 9.915E+02 (K)
RX E06	= 3.379E-01	PT	= 1.227E+?? (N/M2)
RL E06	= 2.097E-01	TI	= 4.606E+01 (K)
RE/METER	= 7.9??E+06	PI	= 2.345E+02 (N/M2)
HO	= 6.??3E+02 (W/M2-K)	(RHO V)I	= 2.466E+01 (KG/M2-S)
TW	= 295.2 (K)	GAP	= 0.0?? (CM)
STEP	= 0.033 (CM)	CONF	= 0GAP

TAW/TT = 0.895 FOR HT/HO
XSURF = SURFACE DISTANCE (FLOW DIRECTION) (0.0 OR 90 DEG.)

TILE COORDINATES (GAMMA=0.0)
XB = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

HT/HE, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HE

CH	GAMMA (DEG)	XSURF (CM)	X3 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	N-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
5	0.0	-5.75	1.9?	-5.75?	7.23	0.00	7.23	6.517E-03	1.433	1.147?	1.456E-04	9.77	.97	.15		1.055	
6	0.0	-6.14	1.4?	-6.14	7.23	0.00	7.23	7.143E-03	1.419	1.037	1.580E-04	9.77	.97	.15		1.156	
7	0.0	-6.49	1.14	-6.48	7.23	0.00	7.23	3.317E-05	.037?	.005	3.144E-09	9.77	.97	.15		.005	
9	0.0	-6.86	.76	-6.86	7.23	0.00	7.23	6.716E-03	1.355	.998	1.416E-04	9.77	.97	.15		1.047?	
10	0.0	-7.2?	.42	-7.2?	7.23	.00?	7.23	4.395E-03	.831	.607	5.642E-05	9.77	.97	.15		.705	
11	0.0	-7.62	[illegible]	-7.62	7.23	.07	7.23	3.339E-03	.599	.437	3.387E-05	9.77	.97	.15	.720	.536	.768
12	0.0	[illegible]	[illegible]	-7.62	7.23	.43	7.23	1.483E-03	.329	.242	7.630E-06	9.77	.97	.15	.395	.248	.341
13	0.0	-5.63	1.94	-5.6?	[illegible]	1.00	0.00	1.066E-02	2.337	2.127	4.835E-04	10.72	1.00	.15		2.149	
14	0.0	-6.0?	1.56	-6.?6	[illegible]	1.00	0.00	1.032E-02	2.181	1.985	4.243E-04	10.72	1.00	.15		2.021?	
15	0.0	-6.43	1.19	-6.43	[illegible]	1.00	0.00	9.352E-03	2.060	1.893	4.316E-04	10.72	1.00	.15		2.007	
16	0.0	-6.83	.77	-6.85	[illegible]	0.00	[illegible]	8.216E-03	1.611	1.466	2.57?E-04	10.72	1.03	.15		1.657	
17	0.0	-7.21	.41	-7.21	[illegible]	0.00	[illegible]	5.226E-03	1.139	1.035	1.13?E-04	10.72	1.03	.15		1.034?	
18	0.0	-7.62	[illegible]	-7.62	6.00	.07	0.00	1.416E-03	.590	.658?	[illegible]	10.72	1.03	.15	.607	.283?	.269
19	0.0	[illegible]	[illegible]	-7.62	[illegible]	.43	[illegible]	-2.4?8E-03	.293?	.236?	-1.21?E-05	10.72	1.02?	.15	.228	-.486?	-.461
20	0.0	-5.74	1.83	-5.74	-7.24	1.33?	-7.24	7.498E-03	1.646	1.227	2.28?E-04	9.77	.97	.15		1.208?	
21	0.0	-6.07?	1.45?	-6.17?	-7.24	[illegible]	-7.24	7.052E-03	1.592	1.239	1.863E-04	9.77	.97	.15		1.216?	
22	0.0	-6.44	1.1?	-6.44	-7.24	1.30?	-7.24	7.778E-03	1.676	1.304	2.164E-04	9.77	.97	.15		1.341	
23	0.0	-6.85?	.74	-6.88	-7.24	[illegible]	-7.24	8.551E-03	1.522	1.195	2.186E-04	9.77	.97	.15		1.196?	
24	0.0	-7.25	.36	-7.26	-7.24	[illegible]	-7.24	7.798E-03	1.617	[illegible]	2.301E-04	9.77	.97	.15		1.328?	
25	0.0	-7.62	1.0?	-7.62	-7.24	.07	-7.24	2.77?E-03	.614	.478	2.322E-05	9.77	.97	.15	.604	.478	.359
26	0.0?	-8.05?	[illegible]	-7.62	-7.24	.43	-7.24	1.326E-03	.294	.229	6.466E-06	9.77	.97	.13	.269	.229	.172
27																	
28																	
29																	
30	0.0	[illegible]	7.62	[illegible]	7.62	.33	7.62	2.538E-03	.556	.395	2.114E-05	3.67	.96	.15	.493	.395	.390
31	0.0	[illegible]	7.62	[illegible]	7.29	0.00	7.29	6.231E-03	1.377	1.092?	1.44?E-04	9.76	.97	.15		1.140?	
32	0.0	[illegible]	7.62	[illegible]	3.63	0.00	3.63	1.028E-02	2.263	1.937	4.248E-04	10.48	.99	.15		1.950	
33	[illegible]	[illegible]	7.62	[illegible]	[illegible]	0.00	[illegible]	9.998E-03	2.194	1.997	4.259E-04	10.72	1.03	.15		2.017	
34	[illegible]	[illegible]	7.62	[illegible]	-3.56	[illegible]	-3.56	1.127E-02	2.416	2.164	5.262E-04	10.49	.93	.15		2.237	
35	[illegible]	[illegible]	7.62	[illegible]	-7.27	0.00	-7.27	6.206E-03	1.336	1.037?	1.373E-04	9.76	.97	.15		1.068?	
36	0.0	[illegible]	7.62	[illegible]	-7.62	.41	-7.62	2.555E-03	.417	.316	1.390E-05	9.67	.96	.15	.312	.346	.324
37																	
38																	
39																	
40																	
41																	

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CH	GAMMA (DEG)	XSURF (CM)	X? (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
42																	
43	0.0	3.87	11.49	3.87	7.62	.33	7.62	3.276E-03	.664	.472	3.229E-05	9.67	.96	.15	.398	.505	.401
44	0.0	3.73	11.41	3.76	7.24	.06	7.24	7.731E-03	1.666	1.216	2.718E-04	9.77	.97	.15		1.258	
45	0.0	3.92	11.54	3.92	3.71	.00	3.71	9.453E-03	2.172	1.770	3.770E-04	10.47	.99	.15		1.790	
46	0.0	3.95	11.57	3.95	3.08	3.07	3.03	9.254E-03	2.015	1.834	3.619E-04	10.72	1.00	.15		1.866	
47	0.0	3.83	11.61	3.59	-3.66	1.07	-3.65	1.017E-02	2.194	1.962	4.214E-04	10.48	.99	.15		1.995	
48	0.0	3.74	11.76	[illegible]	-7.28	.00	-7.28	6.241E-03	1.395	1.082	1.441E-04	9.76	.97	.15		1.073	
49	0.0	3.73	11.41	3.79	-7.62	.37	-7.62	2.899E-03	.429	.324	1.492E-05	9.67	.96	.15	.387	.353	.329
50																	
51																	
52																	
53																	
54																	
55																	
56	0.0	7.25	14.88	7.26	7.62	.33	7.62	1.442E-03	.319	.227	6.386E-06	9.67	.96	.15	.352	.227	.333
57	0.0	7.27	14.89	7.27	7.3	[illegible]	7.36	4.230E-03	.967	.659	5.947E-05	9.75	.97	.15		.681	
58	0.0	7.33	14.95	7.33	3.69	.00	3.59	4.614E-03	1.023	.874	8.633E-05	10.47	.99	.15		.874	
59	0.0	7.40	15.02	7.40	0.00	.00	0.00	4.338E-03	.998	.908	8.405E-05	10.72	1.00	.15		.875	
60	0.0	7.53	15.2	[illegible]	-3.58	[illegible]	-3.58	4.849E-03	1.095	.983	1.314E-04	10.49	.99	.15		.962	
61	0.0	7.15	14.76	7.16	-7.24	[illegible]	-7.24	3.457E-03	.781	.607	4.497E-05	9.77	.97	.15		.597	
62	0.0	7.25	14.89	7.26	-7.62	.31	-7.62	1.631E-03	.355	.269	9.188E-05	9.67	.96	.15	.454	.269	.451
63																	
64																	
65																	
66																	
67																	
68																	
69																	
70	0.0	7.99	15.24	7.62	3.44	.16	3.44	2.050E-03	.454	.391	1.708E-05	10.50	.99	.15	.444	.391	.447
71																	
72	0.0	13.06	15.24	7.62	3.45	2.44	3.45	8.554E-06	.002	.002	2.974E-13	10.50	.99	.15	.002	.802	.062
73																	
74	0.0	8.07	15.24	7.62	0.00	.30	0.00	1.735E-03	.432	.393	1.454E-05	10.72	1.00	.15	.433	.358	.488
75	0.0	8.35	15.24	7.62	0.00	1.15	0.00	-2.363E-04	.008	.007	-3.552E-08	10.72	1.00	.15	.008	-.348	-.054
76																	
77																	
78	0.0	8.64	15.24	7.62	-3.59	.38	-3.59	2.175E-03	.508	.454	2.108E-05	10.49	.99	.15	.463	.431	.449
79	0.0	9.02	15.24	7.62	-3.63	1.17	-3.63	-6.654E-05	.019	.017	-2.449E-08	10.48	.99	.15	.018	-.013	-.014
80																	
81																	
82	0.0	7.84	15.24	7.62	-7.33	.31	-7.33	1.735E-03	.394	.297	1.100E-05	9.75	.97	.15	.432	.237	.490
83																	
84																	
85	0.0	11.23	15.24	7.62	-7.33	3.74	-7.33	-1.119E-04	.000	.000	-4.093E-10	9.75	.97	.15	.000	-.019	-.032

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ORIGINAL PAGE IS OF POOR QUALITY

CFMT TEST (021, MDAC-E PSI GAPS, RUN (17C) 1973 PAGE 19

MACH = 1.2[illegible]E-11 RT = = 5.2[illegible]E+01 (N/M2)
RE/FOOT = 1.[illegible]E+12 T1 = = 4.[illegible]E+01 (K)
RE/METER = 3.[illegible]E+12 P1 = = 9.[illegible]E+01 (N/M2)
HO = 2.6[illegible]E+07 (W/M2-K) (RHO V)1 = 1.0[illegible]E-01 (KG/M2-S)
STEP = 0.03[illegible] (CM) GAP = .064P CONF = .064P

TAW/TT =0.895 FOR HT/HO
XSURF =SURFACE DISTANCE
(FLOW DIRECTION)
HT/HF, GAP HEATING RATIOED TO EDGE AT TILE TOP
HTC/HF, GAP HEATING (CONDUCTION CORRECTED) RATIOED TO FLAT PLATE
HTC/HEC, CONDUCTION CORRECTED HT/HF

TILE COORDINATES (GAMMA=60)
XO = X-COOR. FROM TILE L.E.
XC = X-COOR. FROM TILE CENTER
YC = Y-COOR. FROM TILE CENTER

SPECIFIC HEAT CORRECTED

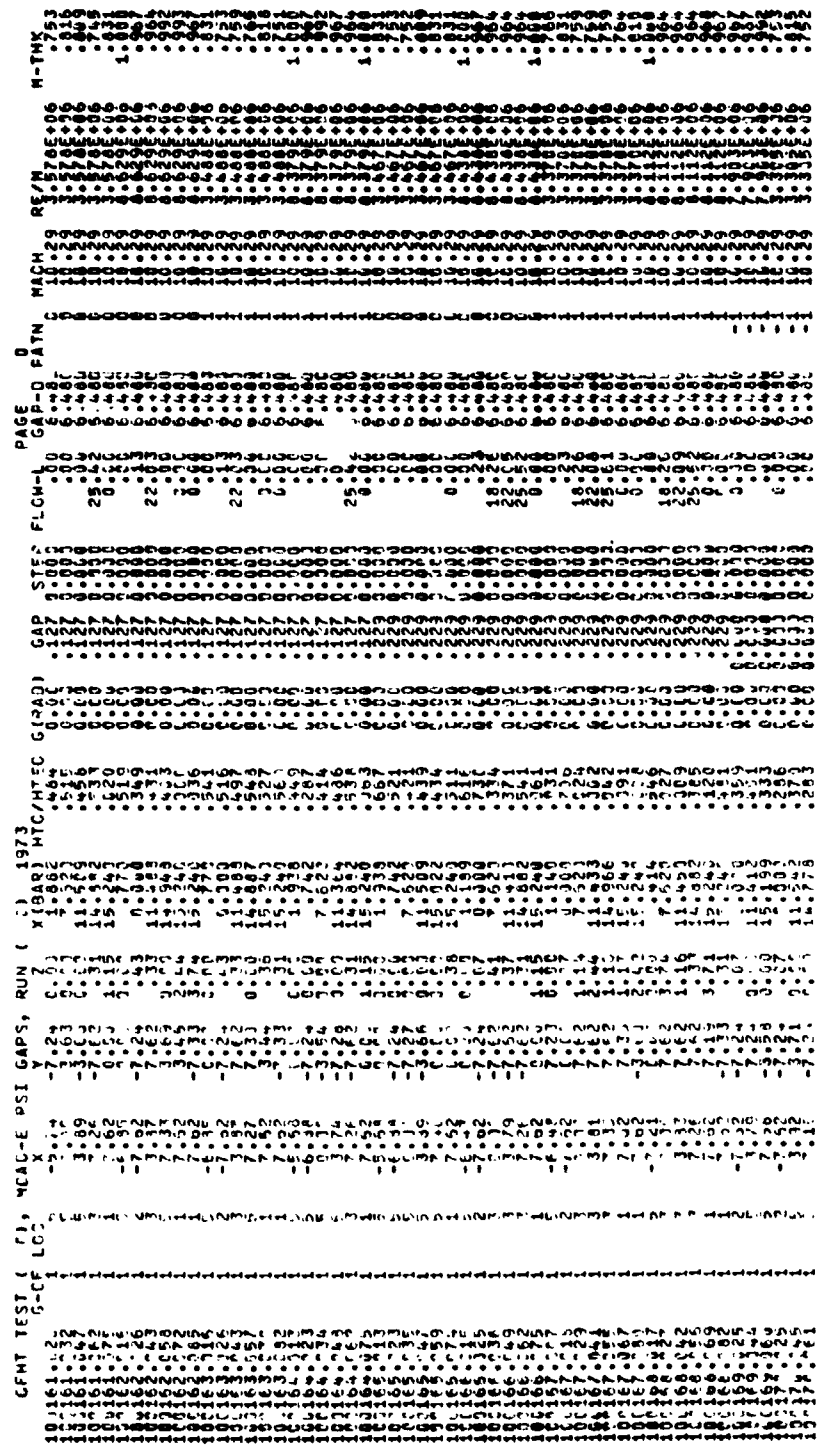
CH	GAMMA (DEG)	XSURF (CM)	X (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	H-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
1	0.0	-5.75	-5.75	7.23	.00	7.23	1.09[illegible]E-03	.815	.648	1.22[illegible]E-04	10.53	.77	.50		.657	
2		-5.41	-5.41	7.23	.00	7.23	2.36[illegible]E-03	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
3		-5.06	-5.06	7.23	.00	7.23	2.05[illegible]E-03	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
4		-4.72	-4.72	7.23	.00	7.23	1.78[illegible]E-03	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
5		-4.37	-4.37	7.23	.00	7.23	1.54[illegible]E-03	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
6		-4.03	-4.03	7.23	.00	7.23	1.33[illegible]E-03	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
7		-3.68	-3.68	7.23	.00	7.23	1.14[illegible]E-03	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
8		-3.34	-3.34	7.23	.00	7.23	9.85[illegible]E-04	.879	.828	1.26[illegible]E-04	10.53	.77	.50	.726	.694	-.439
9		-2.99	-2.99	7.23	.00	7.23	8.49[illegible]E-04	.879	.828	1.26[illegible]E-04	10.53	.77	.50	.356	.694	-.225
10		-2.65	-2.65	7.23	.00	7.23	7.32[illegible]E-04	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
11		-2.30	-2.30	7.23	.00	7.23	6.31[illegible]E-04	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
12		-1.96	-1.96	7.23	.00	7.23	5.44[illegible]E-04	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
13		-1.61	-1.61	7.23	.00	7.23	4.69[illegible]E-04	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
14		-1.27	-1.27	7.23	.00	7.23	4.04[illegible]E-04	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
15		-.92	-.92	7.23	.00	7.23	3.48[illegible]E-04	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
16		-.58	-.58	7.23	.00	7.23	3.00[illegible]E-04	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
17		-.23	-.23	7.23	.00	7.23	2.58[illegible]E-04	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
18		.11	.11	7.23	.00	7.23	2.22[illegible]E-04	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
19		.46	.46	7.23	.00	7.23	1.91[illegible]E-04	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
20		.80	.80	7.23	.00	7.23	1.65[illegible]E-04	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
21		1.15	1.15	7.23	.00	7.23	1.42[illegible]E-04	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
22		1.49	1.49	7.23	.00	7.23	1.22[illegible]E-04	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
23		1.84	1.84	7.23	.00	7.23	1.05[illegible]E-04	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
24		2.18	2.18	7.23	.00	7.23	9.05[illegible]E-05	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
25		2.53	2.53	7.23	.00	7.23	7.79[illegible]E-05	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
26		2.87	2.87	7.23	.00	7.23	6.71[illegible]E-05	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
27		3.22	3.22	7.23	.00	7.23	5.78[illegible]E-05	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
28		3.56	3.56	7.23	.00	7.23	4.98[illegible]E-05	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
29		3.91	3.91	7.23	.00	7.23	4.29[illegible]E-05	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
30		4.25	4.25	7.23	.00	7.23	3.70[illegible]E-05	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
31		4.60	4.60	7.23	.00	7.23	3.19[illegible]E-05	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
32		4.94	4.94	7.23	.00	7.23	2.75[illegible]E-05	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
33		5.29	5.29	7.23	.00	7.23	2.37[illegible]E-05	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
34		5.63	5.63	7.23	.00	7.23	2.04[illegible]E-05	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
35		5.98	5.98	7.23	.00	7.23	1.76[illegible]E-05	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
36		6.32	6.32	7.23	.00	7.23	1.51[illegible]E-05	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
37		6.67	6.67	7.23	.00	7.23	1.30[illegible]E-05	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
38		7.01	7.01	7.23	.00	7.23	1.12[illegible]E-05	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
39		7.36	7.36	7.23	.00	7.23	9.65[illegible]E-06	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
40		7.70	7.70	7.23	.00	7.23	8.30[illegible]E-06	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
41		8.05	8.05	7.23	.00	7.23	7.14[illegible]E-06	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
42		8.39	8.39	7.23	.00	7.23	6.14[illegible]E-06	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
43		8.74	8.74	7.23	.00	7.23	5.28[illegible]E-06	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
44		9.08	9.08	7.23	.00	7.23	4.54[illegible]E-06	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
45		9.43	9.43	7.23	.00	7.23	3.90[illegible]E-06	.879	.828	1.26[illegible]E-04	10.53	.77	.50		.694	
1	0.0	-5.75	-5.75	7.62	.33	7.62	6.89[illegible]E-04	.266	.227	1.38[illegible]E-05	10.41	.79	.50	.335	.228	.352
2		-5.41	-5.41	7.62	.33	7.62	1.40[illegible]E-03	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
3		-5.06	-5.06	7.62	.33	7.62	1.29[illegible]E-03	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
4		-4.72	-4.72	7.62	.33	7.62	1.12[illegible]E-03	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
5		-4.37	-4.37	7.62	.33	7.62	9.74[illegible]E-04	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
6		-4.03	-4.03	7.62	.33	7.62	8.41[illegible]E-04	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
7		-3.68	-3.68	7.62	.33	7.62	7.21[illegible]E-04	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
8		-3.34	-3.34	7.62	.33	7.62	6.23[illegible]E-04	.293	.252	1.44[illegible]E-05	10.41	.82	.50	.597	.247	.286
9		-2.99	-2.99	7.62	.33	7.62	5.37[illegible]E-04	.293	.252	1.44[illegible]E-05	10.41	.82	.50	.260	.247	-.419
10		-2.65	-2.65	7.62	.33	7.62	4.63[illegible]E-04	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
11		-2.30	-2.30	7.62	.33	7.62	3.99[illegible]E-04	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
12		-1.96	-1.96	7.62	.33	7.62	3.44[illegible]E-04	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
13		-1.61	-1.61	7.62	.33	7.62	2.97[illegible]E-04	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
14		-1.27	-1.27	7.62	.33	7.62	2.56[illegible]E-04	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
15		-.92	-.92	7.62	.33	7.62	2.21[illegible]E-04	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
16		-.58	-.58	7.62	.33	7.62	1.90[illegible]E-04	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
17		-.23	-.23	7.62	.33	7.62	1.64[illegible]E-04	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
18		.11	.11	7.62	.33	7.62	1.41[illegible]E-04	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
19		.46	.46	7.62	.33	7.62	1.22[illegible]E-04	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
20		.80	.80	7.62	.33	7.62	1.05[illegible]E-04	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
21		1.15	1.15	7.62	.33	7.62	9.08[illegible]E-05	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
22		1.49	1.49	7.62	.33	7.62	7.84[illegible]E-05	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
23		1.84	1.84	7.62	.33	7.62	6.77[illegible]E-05	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
24		2.18	2.18	7.62	.33	7.62	5.84[illegible]E-05	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
25		2.53	2.53	7.62	.33	7.62	5.04[illegible]E-05	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
26		2.87	2.87	7.62	.33	7.62	4.34[illegible]E-05	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
27		3.22	3.22	7.62	.33	7.62	3.74[illegible]E-05	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
28		3.56	3.56	7.62	.33	7.62	3.23[illegible]E-05	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
29		3.91	3.91	7.62	.33	7.62	2.78[illegible]E-05	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
30		4.25	4.25	7.62	.33	7.62	2.40[illegible]E-05	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
31		4.60	4.60	7.62	.33	7.62	2.07[illegible]E-05	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
32		4.94	4.94	7.62	.33	7.62	1.78[illegible]E-05	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
33		5.29	5.29	7.62	.33	7.62	1.54[illegible]E-05	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
34		5.63	5.63	7.62	.33	7.62	1.32[illegible]E-05	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
35		5.98	5.98	7.62	.33	7.62	1.14[illegible]E-05	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
36		6.32	6.32	7.62	.33	7.62	9.81[illegible]E-06	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
37		6.67	6.67	7.62	.33	7.62	8.45[illegible]E-06	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
38		7.01	7.01	7.62	.33	7.62	7.28[illegible]E-06	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
39		7.36	7.36	7.62	.33	7.62	6.27[illegible]E-06	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
40		7.70	7.70	7.62	.33	7.62	5.40[illegible]E-06	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
41		8.05	8.05	7.62	.33	7.62	4.65[illegible]E-06	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
42		8.39	8.39	7.62	.33	7.62	4.00[illegible]E-06	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
43		8.74	8.74	7.62	.33	7.62	3.44[illegible]E-06	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
44		9.08	9.08	7.62	.33	7.62	2.96[illegible]E-06	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	
45		9.43	9.43	7.62	.33	7.62	2.54[illegible]E-06	.293	.252	1.44[illegible]E-05	10.41	.82	.50		.247	

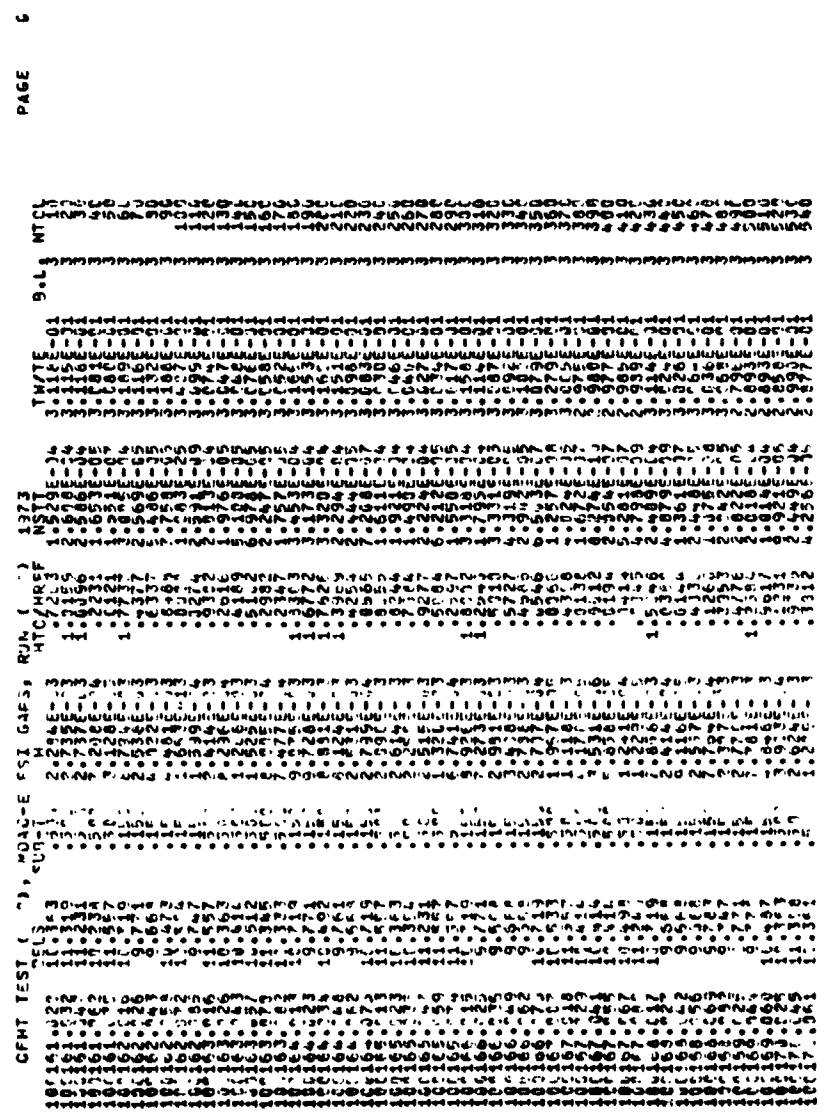
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CFHT TEST (92), MDAC-E RSI GAPS, RUN (17?) 1973 PAGE 20

CP	GAMMA (DEG)	XSURF (CM)	X3 (CM)	XC (CM)	YC (CM)	Z (CM)	Y-NOR (CM)	HT (KG/M2-S)	HT/HO	HT/HF	NSTT	DELS (CM)	M-THK (CM)	SUB-L (CM)	HT/HE	HTC/HF	HTC/HEC
42																	
43	[illegible]	[illegible]	11.49	[illegible]	7.62	.33	7.62	8.352E-04	.330	.258	2.084E-05	10.41	.75	.50	.366	.276	.370
44	[illegible]	[illegible]	11.41	3.70	7.24	[illegible]	7.24	2.225E-03	.903	.713	1.537E-04	10.53	.77	.50		.746	
45	[illegible]	3.92	11.54	3.92	3.71	[illegible]	3.71	2.624E-03	1.099	.963	2.449E-04	11.31	.82	.58		.973	
46	[illegible]	3.95	11.5?	3.93	[illegible]	[illegible]	[illegible]	2.495E-03	1.04?	.947	2.289E-04	11.56	.83	.50		.961	
47	[illegible]	3.63	11.51	3.69	-3.66	[illegible]	-3.66	2.653E-03	1.107	.964	2.479E-04	11.2?	.81	.50		.978	
48	[illegible]	3.74	11.??	3.74	-7.28	[illegible]	-7.28	1.724E-03	.72?	.535	8.939E-05	10.35	.75	[illegible]		.543	
49	[illegible]	3.73	11.41	3.79	-7.62	.37	-7.62	4.119E-04	.161	.118	4.696E-06	10.24	.74	.50	.224	.127	.235
50																	
51																	
52																	
53																	
54																	
55																	
56	[illegible]	7.25	14.88	7.25	7.62	.33	7.62	4.234E-04	.153	.124	4.839E-06	10.41	.76	.58	.289	.133	.283
57	[illegible]	7.27	14.89	[illegible]	7.33	[illegible]	7.30	1.410E-03	.548	.433	5.92?E-05	10.51	.76	.58		.378	
58	[illegible]	7.33	14.93	7.33	3.69	[illegible]	3.69	1.463E-03	.539	.534	7.570E-05	11.31	.82	.50		.543	
59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.319E-03	.564	.513	6.363E-05	11.56	.83	.50		.508	
60	[illegible]	7.54	[illegible]	7.53	-3.53	[illegible]	-3.53	1.449E-03	.518	.539	7.570E-05	11.24	.81	.58		.535	
61	0.0	7.15	14.78	7.16	-7.24	[illegible]	-7.24	1.290E-03	.488	.363	4.256E-05	10.36	.75	.58		.381	
62	[illegible]	7.26	14.86	7.26	-7.62	.31	-7.62	4.239E-04	.175	.128	5.244E-06	10.24	.74	.58	.358	.131	.344
63																	
64																	
65																	
66																	
67																	
68																	
69																	
70	[illegible]	7.98	15.24	7.62	3.44	.36	3.44	6.056E-04	.256	.226	1.324E-05	11.35	.82	.58	.421	.226	.416
71																	
72	[illegible]	1?.60	15.24	7.62	3.45	2.44	3.45	1.383E-06	.001	.001	6.900E-11	11.34	.82	.58	.001	.001	.001
73																	
74	[illegible]	[illegible]	15.24	7.62	[illegible]	.38	[illegible]	5.??3E-04	.229	.228	1.211E-05	11.56	.83	.58	.426	.193	.379
75	[illegible]	8.85	15.24	7.62	[illegible]	1.15	[illegible]	-3.795E-05	.056	.306	-2.548E-08	11.5?	.83	.58	.011	-.015	-.029
76																	
77																	
78	0.0	9.04	15.24	7.62	-3.5?	.38	-3.59	5.524E-04	.249	.209	1.12?E-05	11.24	.81	.58	.388	.204	.381
79	[illegible]	8.82	15.24	7.62	-3.63	1.17	-3.63	2.651E-07	.009	.005	1.997E-10	11.24	.81	.58	.014	.000	.000
80																	
81																	
82	[illegible]	[illegible]	15.24	7.62	-7.33	.31	-7.33	5.267E-04	.195	.145	7.397E-06	10.33	.75	.53	.401	.165	.434
83																	
84																	
85																	

RUN	MACH	RY FTG	RL FTG	RE/METER	TT(K)	PT(N/M2)	T1(K)	P1(N/M2)	(RHO V)1	HO	PAGE
161	10.23	1.575E-01	[illegible]	3.378E+06	9.334E+02	5.203E+06	4.502E+01	9.345E+01	1.666E+01	2.613E+00	2
162	[illegible]	1.739E-01	[illegible]	3.629E+06	9.519E+02	1.216E+07	4.482E+01	2.391E+02	2.558E+01	2.603E+00	3
163	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.211E+06	4.569E+01	5.942E+01	1.358E+01	2.613E+00	5
164	[illegible]	[illegible]	[illegible]	8.379E+06	9.656E+02	1.217E+07	4.552E+01	2.373E+02	2.530E+01	2.603E+00	7
165	[illegible]	[illegible]	[illegible]	[illegible]	9.921E+02	5.174E+06	4.566E+01	9.672E+01	[illegible]	2.619E+00	9
166	[illegible]	[illegible]	[illegible]	[illegible]	9.621E+02	1.217E+07	4.534E+01	2.374E+02	2.536E+01	[illegible]	11
167	[illegible]	[illegible]	[illegible]	[illegible]	9.846E+02	5.150E+06	4.634E+01	9.622E+01	1.638E+01	2.619E+00	13
168	[illegible]	[illegible]	[illegible]	8.112E+06	9.777E+02	1.207E+07	4.614E+01	2.350E+02	[illegible]	2.603E+00	15
169	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.685E+01	2.345E+02	2.466E+01	2.603E+00	17
172	[illegible]	1.455E-01	[illegible]	[illegible]	[illegible]	[illegible]	4.792E+01	9.885E+01	1.037E+01	2.619E+00	19
AVERAGES	10.2?	[illegible]	[illegible]	5.367E+06	9.735E+02	9.660E+06	4.583E+01	1.677E+02	1.763E+01	3.811E+00	





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4.0 NASA/AMES, 3.5 FOOT H.W.T. TESTS (EXPANDED LISTING)

Data from the Rockwell International Gap Heating Test 158 (OH-2) conducted in NASA-Ames 3.5 Foot Hypersonic Wind Tunnel have been assimilated. The test was supervised by C. B. Blumer of Rockwell International and W. K. Lockman of Ames. The data are also presented in Reference 3.

The NASA-Ames 3.5 Foot Hypersonic Wind Tunnel is a closed-circuit, blowdown-type tunnel capable of operating at nominal Mach numbers of 5, 7, and 10 at pressures to 1800 psia and temperatures to 3400°R for run times to four minutes. The major components of the facility include a gas storage system where the test gas is stored at 3000 psi, a storage heater filled with aluminum-oxide pebbles capable of heating the test gas to 3400°R, axisymmetric contoured nozzles with exit diameters of 42 inches for generating the desired Mach number, and a 900,000 ft^3 vacuum storage system which operates to pressures of 0.3 psia. The test section itself is an open-jet type enclosed within a chamber approximately 12 feet in diameter and 40 feet in length, arranged transverse to the flow direction.

A model support system is provided that can pitch models through an angle-of-attack range of -20 to +20 degrees, in a vertical plane about a fixed point of rotation on the tunnel centerline. This rotation point is adjustable from 1 to 5 feet from the nozzle exit plane. The model normally is out of the test stream (strut centerline 37 inches from tunnel centerline) until the tunnel test conditions are established after which it is inserted. Insertion time is adjustable to as little as 1/2 second and models may be inserted at any strut angle.

A high-speed, analog-to-digital data acquisition system is used to record test data on magnetic tape. The present system is equipped to measure and record the outputs from 80 transducers in addition to 20 channels of tunnel parameters.

The run schedule for the OH-2 test is presented in Figure 4.0-1. Data were received for 71 data runs out of the 81 tests that were made. The run schedule presents information for these 71 runs. The tests were run at Mach 5.1 at four unit Reynolds numbers. The Reynolds numbers were 1.4, 2.2, 3.3, and 4.5 x 10^6 per meter. A total of five gap widths and three gap depths was investigated. Two forward facing steps and one aft facing step as well as the flush tile configuration were examined. All calibration testing was done using a flat plate model at zero angle of attack.

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RUN SCHEDULE FOR OH-2 TESTS - 3.5 FOOT HWT

MACH NUMBER = 5.1 T_R = 2000°R α = 0°
REYNOLDS NUMBER/METER SCHEDULE: A = 1.4 x 10^6
B = 2.2 x 10^6, C = 3.3 x 10^6, D = 4.5 x 10^6

RUN NO.	Re/m SCHEDULE	INSERT NO.	T/C SET NO.	GAP WIDTH (IN.)	GAP DEPTH (IN.)	STEP HEIGHT (IN.)
6	A	II	1	0.200	.4/.8/1.6	0
7	B					
8	C					
9	D					
10	A			0.100		
11	B					
12	C					
13	D					
14	A			0.050		
16	B					
17	C					
18	D					
19	B					+1/16
20				0.100		
21				0.200		
22				0.200		+1/8
23				0.050		
24				0.100		
25						-1/16
26	A	IV	2			0
27	B					
28	D					
29	A		1			
30	B					
31	C					
32	B					+1/16
33	A					+1/16
34	A	III	5			0
35	B					
36	C					
37	D					

Figure 4.0-1

RUN SCHEDULE FOR OH-2 TESTS - 3.5 FOOT HWT

MACH NUMBER = 5.1 T_R = 2000°R α = 0°
REYNOLDS NUMBER/METER SCHEDULE: A = 1.4×10^6
B = 2.2×10^6, C = 3.3×10^6, D = 4.5×10^6

RUN NO.	Re/m SCHEDULE	INSERT NO.	T/C SET NO.	GAP WIDTH (IN.)	GAP DEPTH (IN.)	STEP HEIGHT (IN.)
38	A	I	1	0	0	0
39	B	↓	↓	↓	↓	↓
40	C	↓	↓	↓	↓	↓
41	D	↓	↓	↓	↓	↓
46	A	V	↓	0.100	0.800	↓
47	B	↓	↓	↓	↓	↓
48	C	↓	↓	↓	↓	↓
49	D	↓	↓	↓	↓	↓
50	A	↓	2	↓	↓	↓
51	B	↓	↓	↓	↓	↓
52	C	↓	↓	↓	↓	↓
53	D	↓	↓	↓	↓	↓
54	A	II	↓	0.200	.4/.8/1.6	↓
55	B	↓	↓	↓	↓	↓
56	A	↓	↓	0.100	↓	↓
57	B	↓	↓	↓	↓	↓
58	D	↓	↓	↓	↓	↓
59	A	↓	↓	0.050	↓	↓
60	B	↓	↓	↓	↓	↓
61	D	↓	↓	↓	↓	↓
62	A	↓	↓	0.025	↓	↓
63	B	↓	↓	↓	↓	↓
64	D	↓	↓	↓	↓	↓
65	A	↓	↓	0.050	↓	+1/16
66	B	↓	↓	↓	↓	↓
67	D	↓	↓	↓	↓	↓
68	A	↓	↓	↓	↓	+1/8
69	B	↓	↓	↓	↓	↓
70	D	↓	↓	↓	↓	↓
71	A	↓	↓	↓	↓	-1/6
72	B	↓	↓	↓	↓	↓

Figure 4.0-1 Continued

RUN SCHEDULE FOR OH-2 TESTS - 3.5 FOOT HWT

MACH NUMBER = 5.1 T_R = 2000°R α = 0°
REYNOLDS NUMBER/METER SCHEDULE: A = 1.4 x 10^6
B = 2.2 x 10^6, C = 3.3 x 10^6 D = 4.5 x 10^6

RUN NO.	Re/m SCHEDULE	INSERT NO.	T/C SET NO.	GAP WIDTH (IN.)	GAP DEPTH (IN.)	STEP HEIGHT (IN.)
73	D	II	2	0.050	.4/.8/1.6	-1/6
74	A	III	5a	0.100	↓	0
75	B	↓	↓	↓	↓	↓
76	D	↓	↓	↓	↓	↓
77	A	↓	3	↓	↓	↓
78	B	↓	↓	↓	↓	↓
79	D	↓	↓	↓	↓	↓
80	B	↓	2	↓	↓	↓
81	D	↓	↓	↓	↓	↓

Figure 4.0-1 Concluded

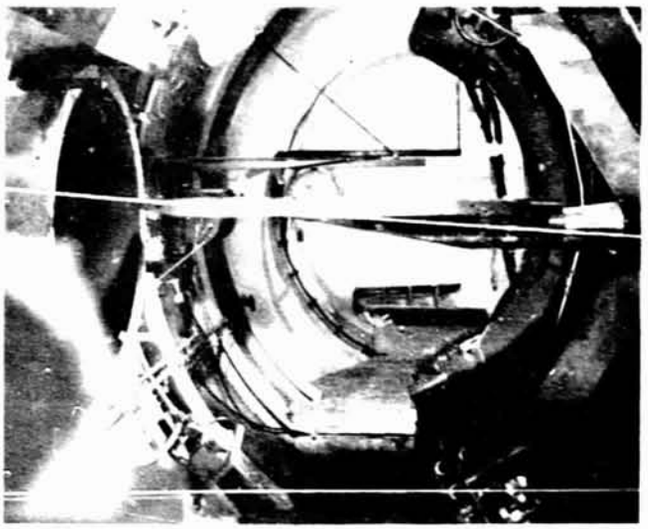
4.1 Model(s) Description and Instrumentation Location - The test configuration consisted of 27 inch by 60 inch carrier plate wedge into which 24 inch by 42 inch instrumented test article inserts were placed. Figure 4.1-1 shows the carrier plate with an insert(s) installed in the test section of the 3.5 foot HWT. Total temperature and pressure probes were mounted on the downstream end of the wedge at three spanwise locations. These probes were used to define the freestream conditions for the tests. A sketch of the carrier plate is also shown in Figure 4.1-2. The model coordinate system definition is presented in Figure 4.1-3. The five inserts tested are shown in Figure 4.1-4 and are as follows.

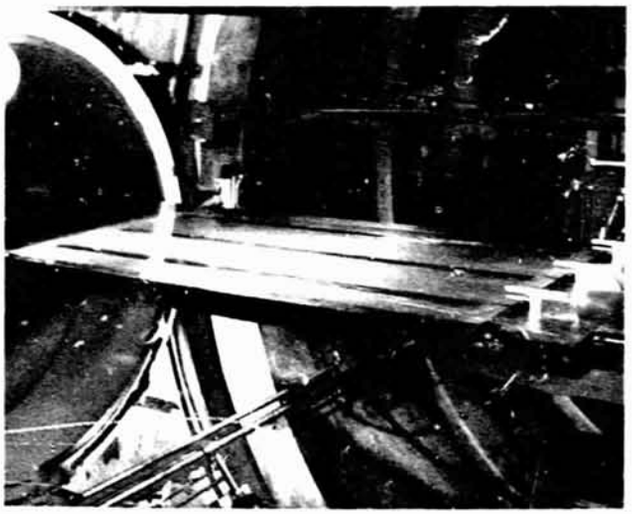
Insert I - Smooth heat transfer calibration plate (Figure 4.1-5)
Insert II - Single transverse gap (Figure 4.1-6)
Insert III - Multiple transverse gap (Figure 4.1-7)
Insert IV - Longitudinal Intersecting gaps (Figure 4.1-8)
Insert V - Diagonal Intersecting gaps (Figure 4.1-9)

The instrumentation locations for the five inserts are shown in Figure 4.1-5 thru 4.1-9 The coordinates of each thermocouple are described along with the basic heat transfer data in Section 4.3.

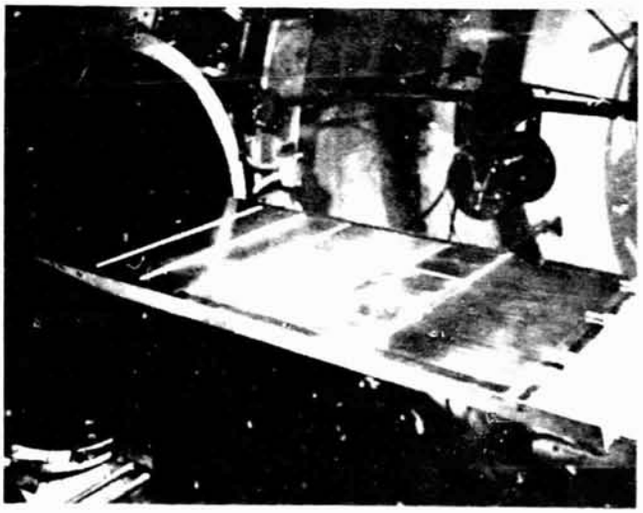
Calibration Data - Four calibration runs (Run 38 thru 41) were made to characterize the flow over the test configuration utilizing the smooth heat transfer calibration plate (Insert I). Three rows (y = -20.54, 0.0, and 20.54cm) of Chromel-Constantan thermocouples along with three corresponding total temperature probes were used to measure the heating environment along and across the test article. Figure 4.1-10 presents the heat transfer coefficient along the calibration plate (y = -20.54) for the four test unit Reynold numbers. The heat transfer coefficient (H_L) is based on a recovery factor of 0.874. Companion data was also received for a recovery factor of 0.907. The low Reynolds number heating data decreases approximately with the square root of distance along the panel which is characteristic of a laminar boundary layer. The higher Reynolds number data shows a decrease and then a sharp rise in heating along the panel characteristic of transitional flow. The heat transfer data measured on inserts with simulated RSI gaps are referenced to the flat plate calibration data. A two-dimensional interpolation in the x and y directions was performed on the calibration data for each test condition to determine the reference heat transfer coefficient at the locations where gap heating data were measured. Figure 4.1-11 is a typical plot of Stanton number along the calibration plate. The laminar and transitional heating patterns are obvious from this figure.

AMES 3.5 FT H.W.T. TEST CONFIGURATIONS





CALIBRATION MODEL



MULTIPLE GAP MODEL

CARRIER PLATE FOR AMES GAP HEATING TESTS

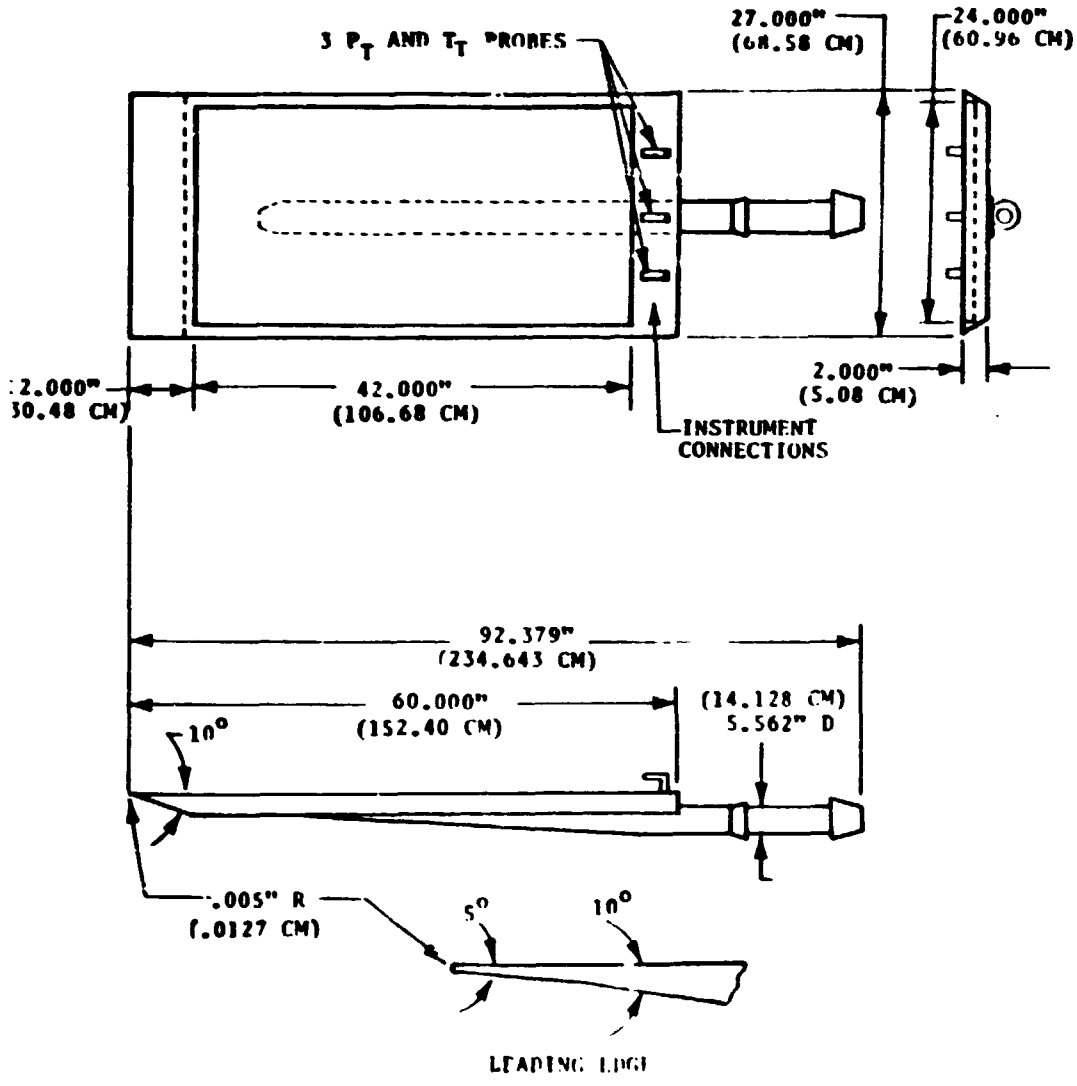
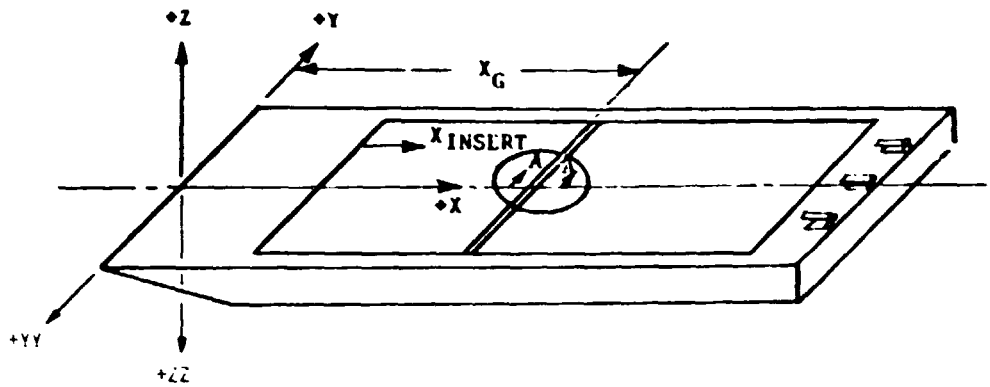
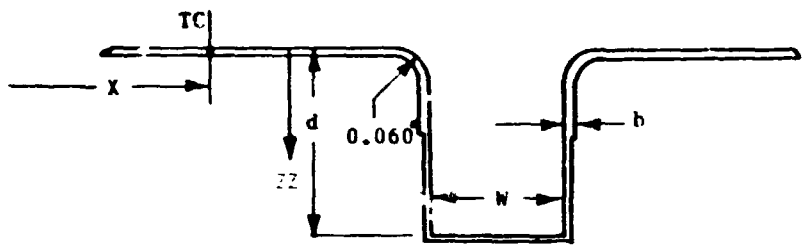


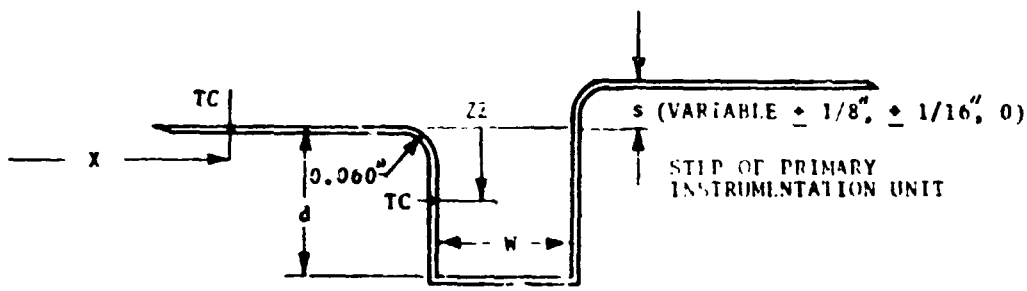
Figure 4.1-2

AMES GAP HEATING MODEL
COORDINATE DEFINITION





DETAIL A-A



ALTERNATE WITH SURFACE STEP

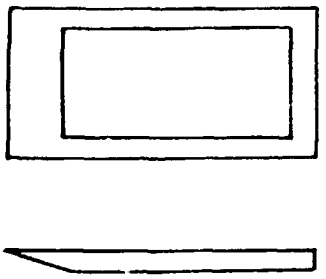
4.1-4

Figure 4.1-3

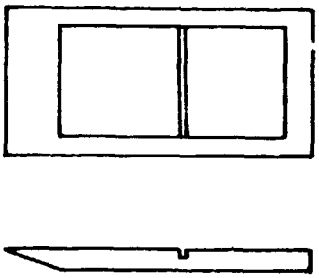
AMES 3.5 FOOT HWT GAP MODELS

- TEST VARIABLES
  $10^6 Re/_m$ = 1.4, 2.2, 3.3 AND 4.5
  M_∞ = 5.1
  GAP WIDTH = 0.064, 0.127, 0.254, and 0.508 cm
  GAP DEPTH = 1, 2, AND 4 cm
  STEPS = 0, ± .159 AND + .318 cm
- 71 TEST RUNS ASSIMILATED

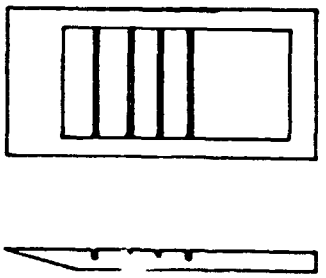
CALIBRATION PLATE



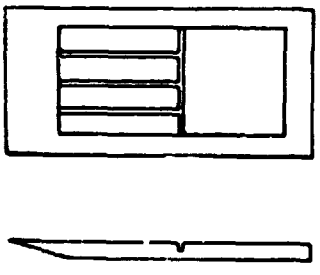
SINGLE TRANSVERSE GAP



MULTIPLE TRANSVERSE GAP



STAGGERED TILES



30° ORIENTED TILES

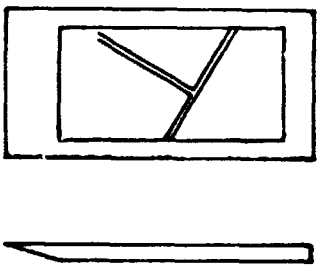
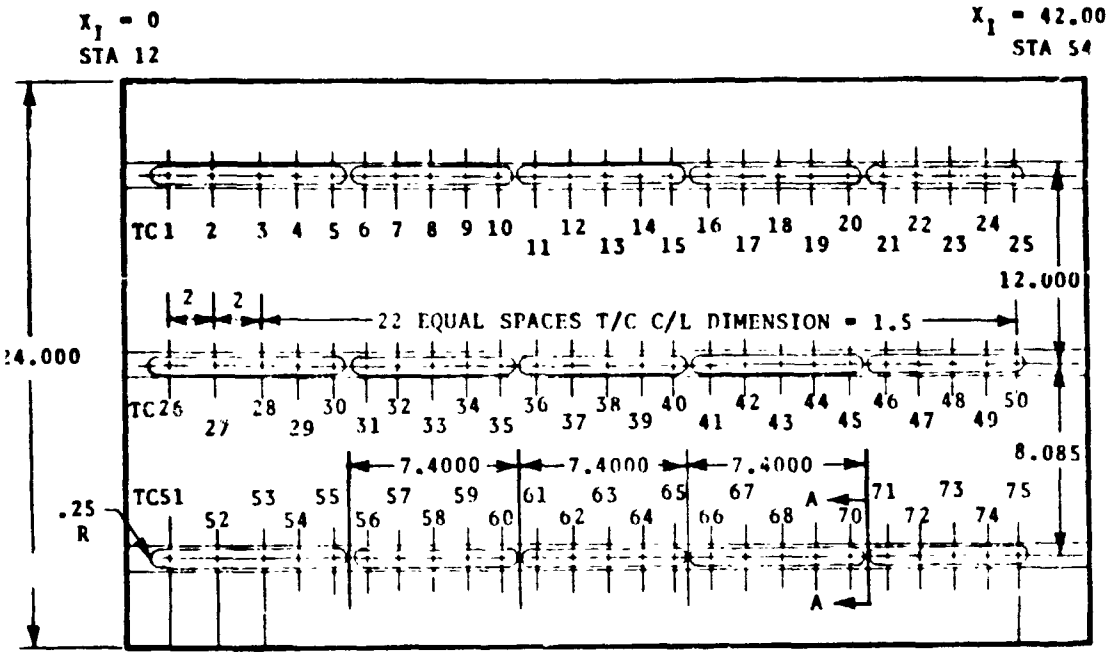


Figure 4.1-4

AMES GAP HEATING TEST INSERT I
(SMOOTH HEAT TRANSFER CALIBRATION PLATE)



NOTE: DIMENSIONS IN INCHES

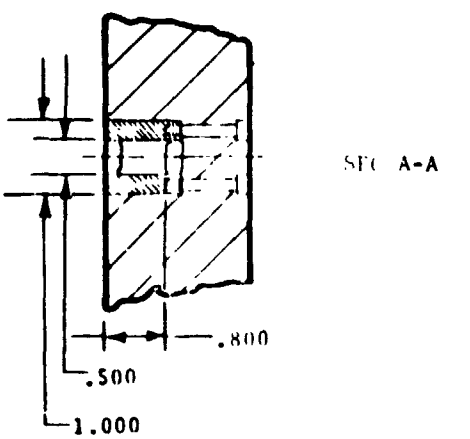


Figure 4.1-5

AMES GAP HEATING TEST INSERT II PRIMARY INSTRUMENTATION UNIT (SINGLE TRANSVERSE GAP)

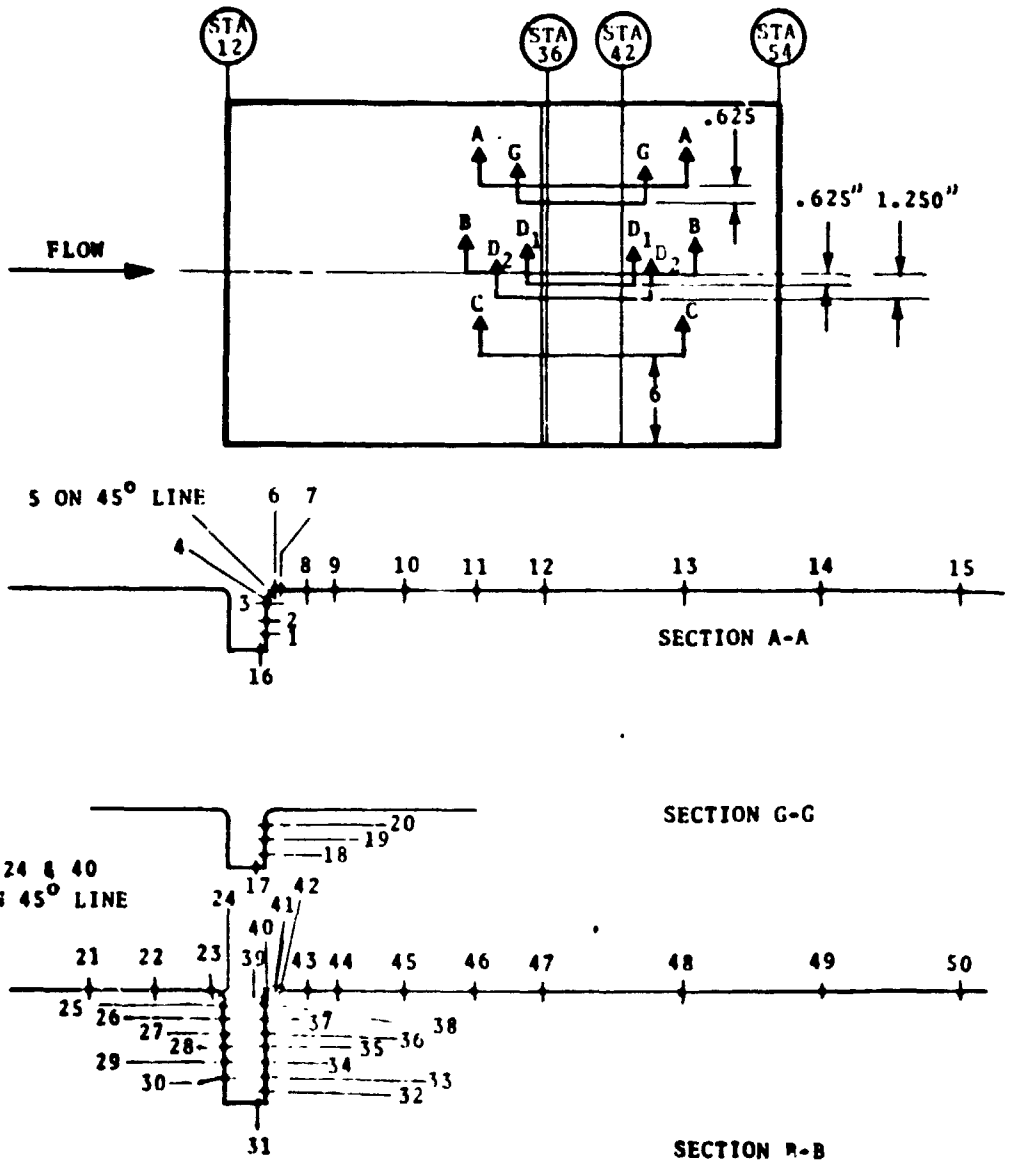


Figure 4.1-6

AMES GAP HEATING TEST INSERT II
PRIMARY INSTRUMENTATION UNIT
(SINGLE TRANSVERSE GAP)

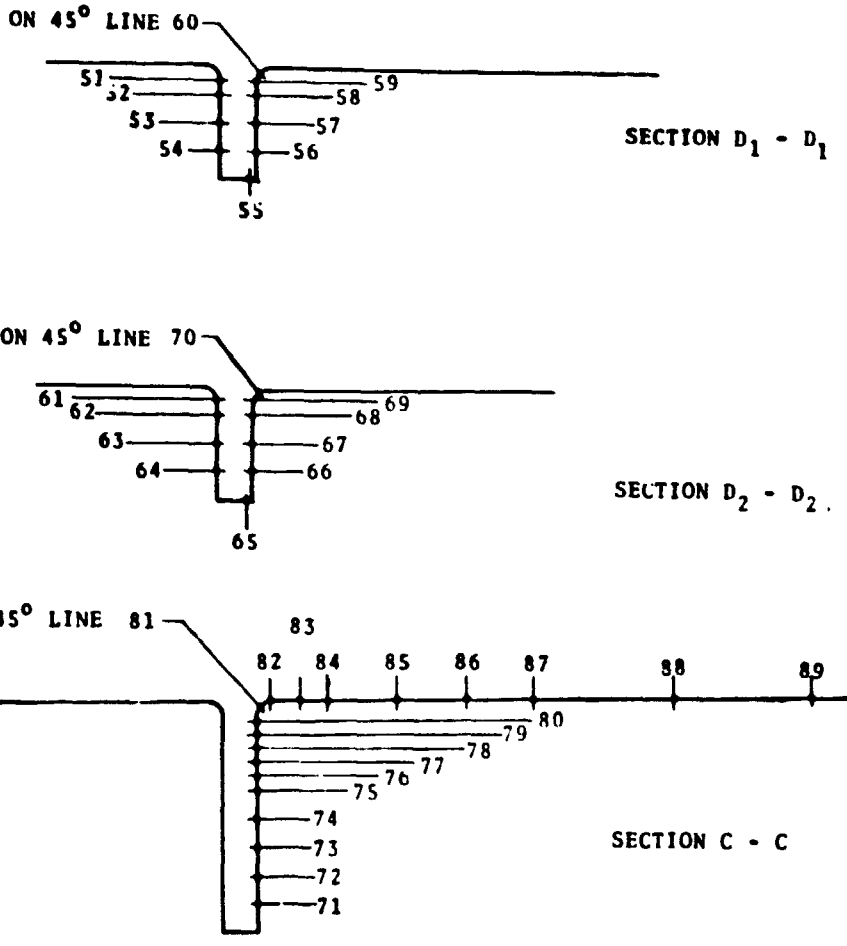


Figure 4.1-6 (Continued)

AMES GAP HEATING TEST INSERT II
PRIMARY INSTRUMENTATION UNIT
(SINGLE TRANSVERSE GAP)

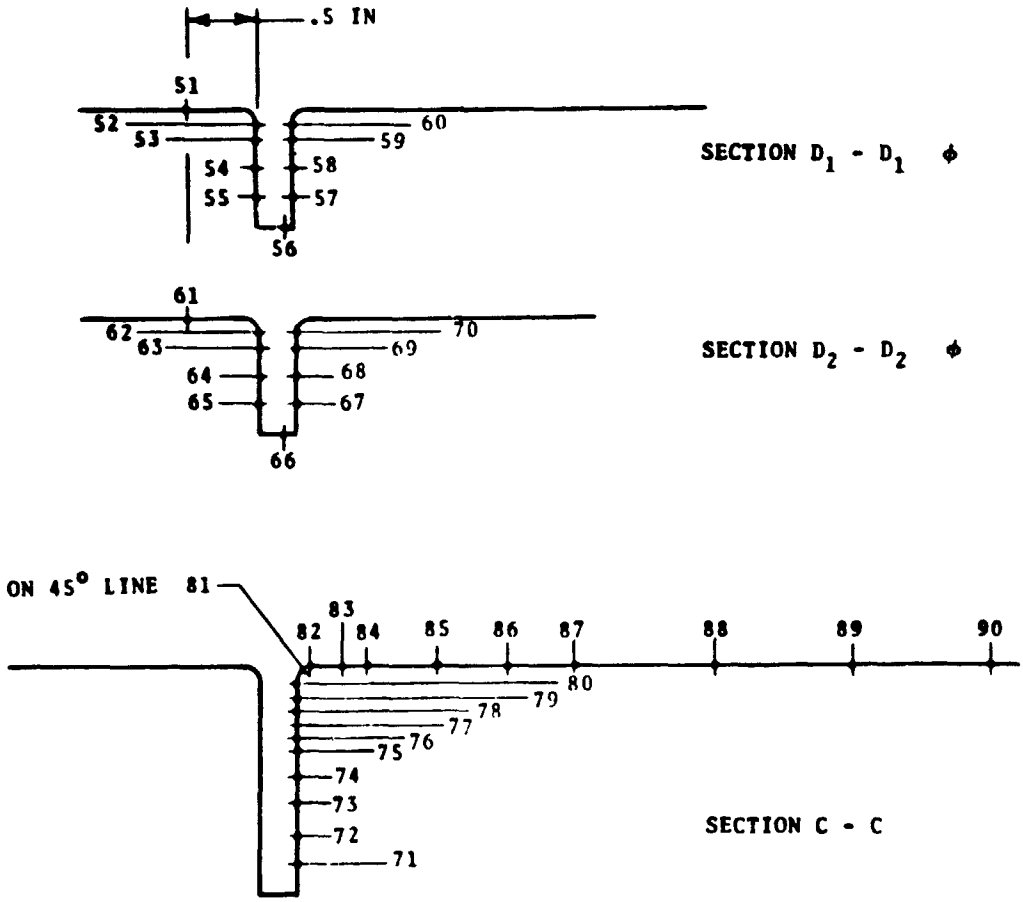
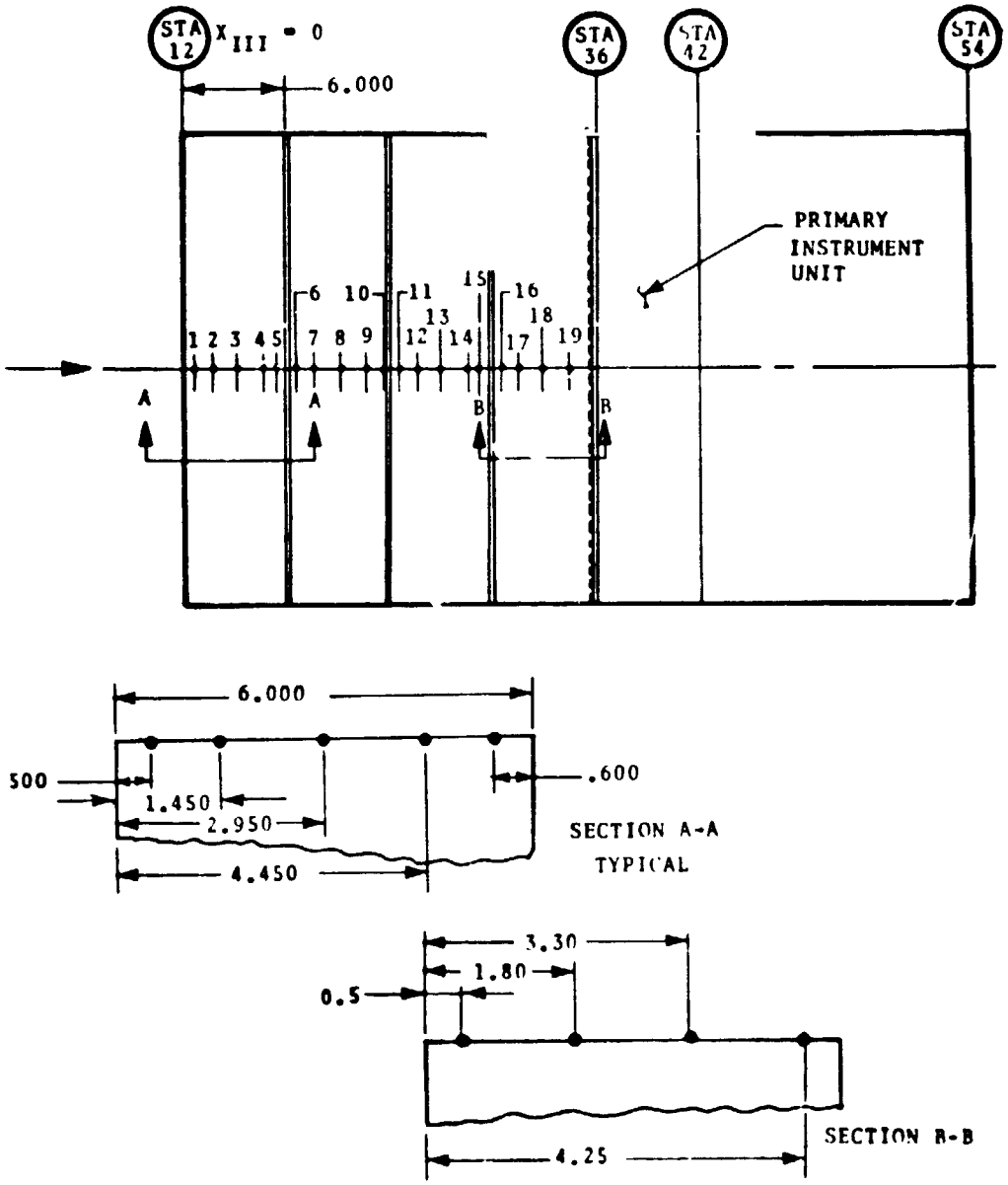


Figure 4.1-6 (Concluded)

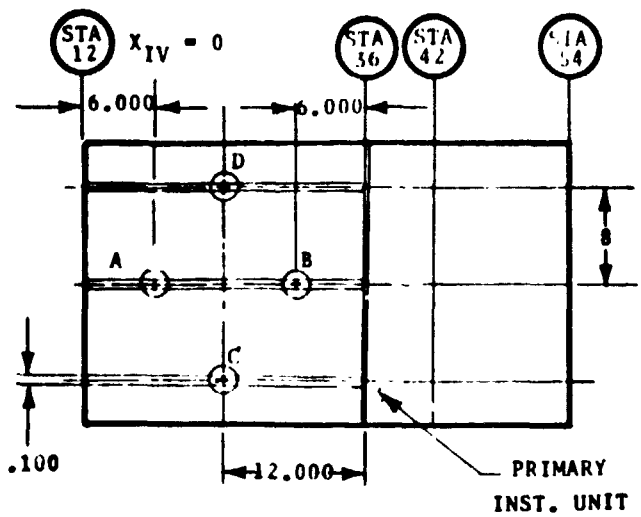
AMES GAP HEATING TEST INSERT III
(MULTIPLE TRANSVERSE GAP)



NOTE: DIMENSIONS IN INCHES

Figure 4.1-7

AMES GAP HEATING TEST INSERT IV
(LONGITUDINAL INTERSECTING GAPS)



NOTE: DIMENSIONS IN INCHES

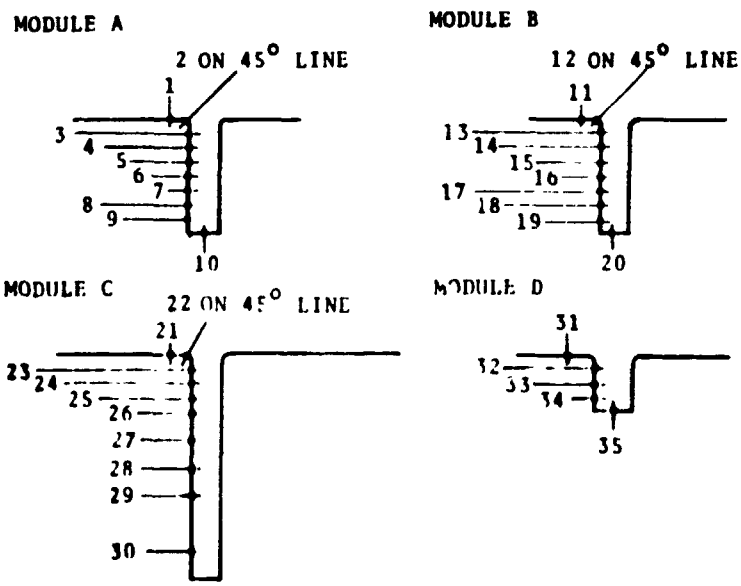
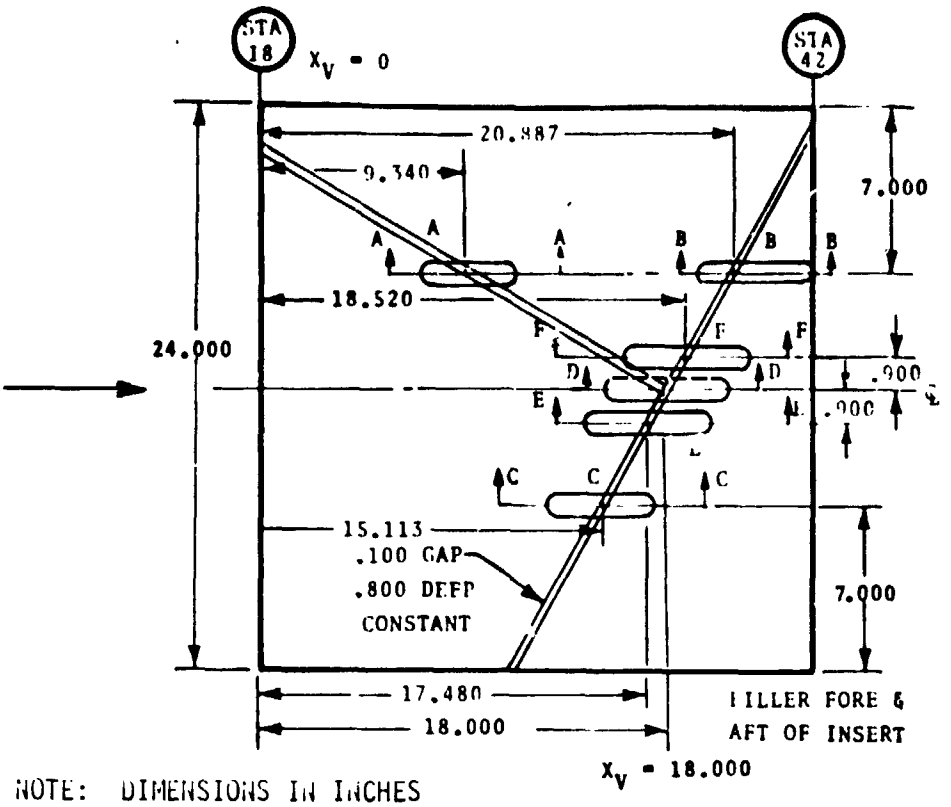


Figure 4.1-8

AMES GAP HEATING TEST INSERT V
(DIAGONAL INTERSECTING GAPS)



NOTE: DIMENSIONS IN INCHES

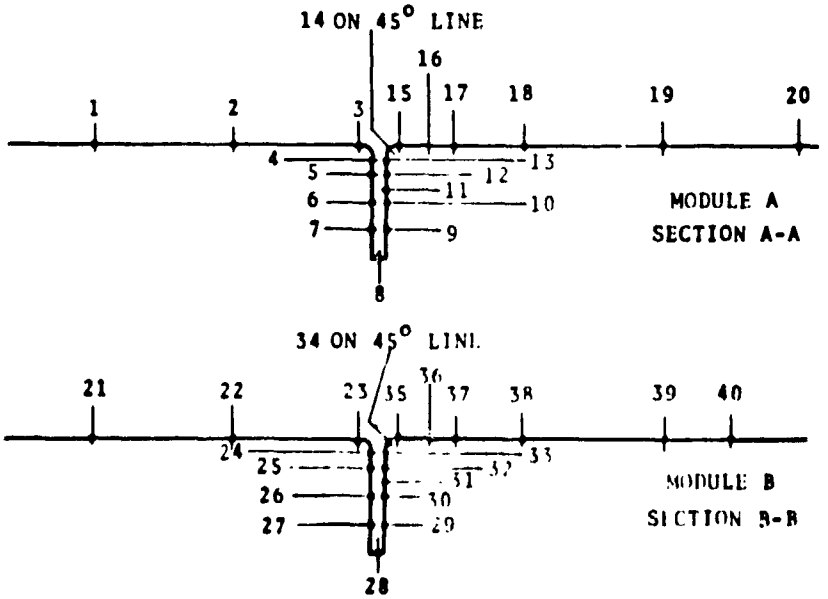


Figure 4.1-9

AMES GAP HEATING TEST INSERT V (DIAGONAL INTERSECTING CAPS)

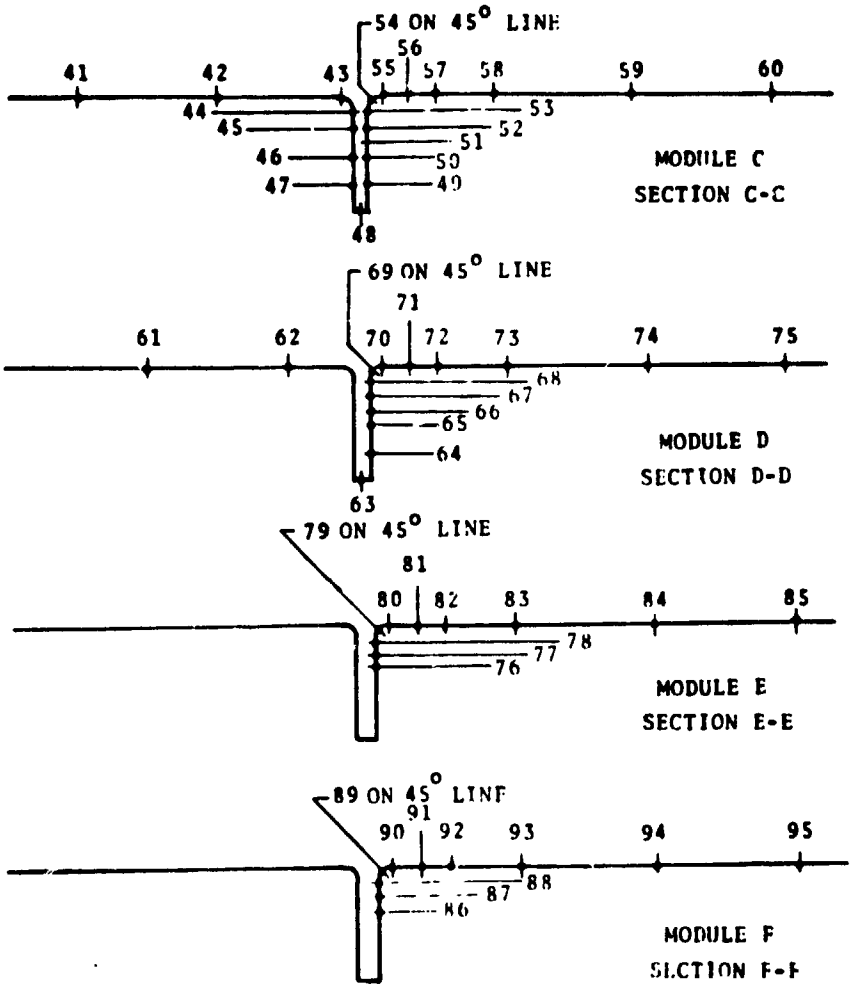
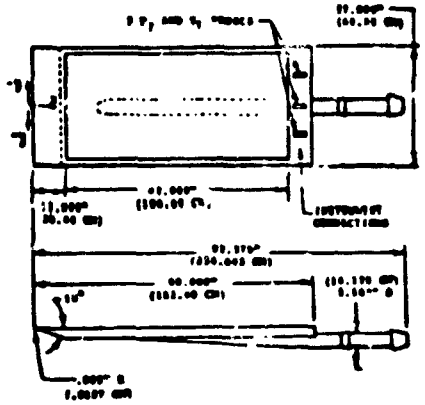


Figure 4.1-9 (Continued)

HEAT TRANSFER COEFFICIENT (LAM) ALONG AMES WEDGE

SYM	Re_∞/m	RUN
□	1.450800E+06	38
○	2.322100E+06	39
△	3.347600E+06	40
+	4.511900E+06	41



Y - LATERAL DISTANCE (CM) = -20.536

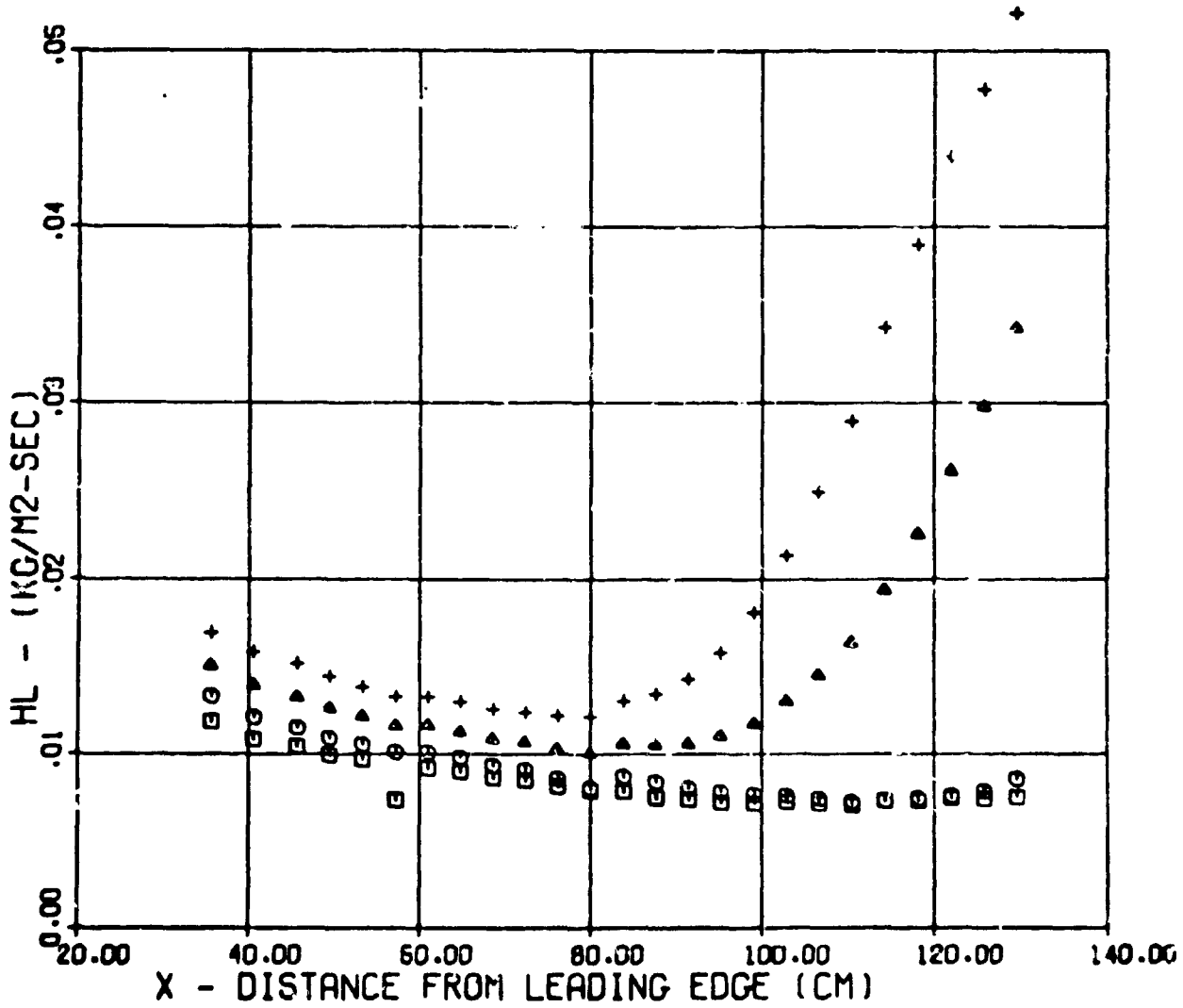
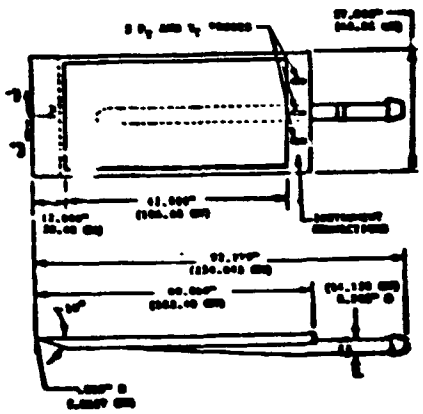


Figure 4.1-10

STANTON NUMBER (LAM) ALONG AMES WEDGE

SYM	Re_∞/m	RUN
□	1.4508E+06	38
○	2.1991E+06	39
△	3.2607E+06	40
+	4.5119E+06	41



Y - LATERAL DISTANCE (CM) = 0.000

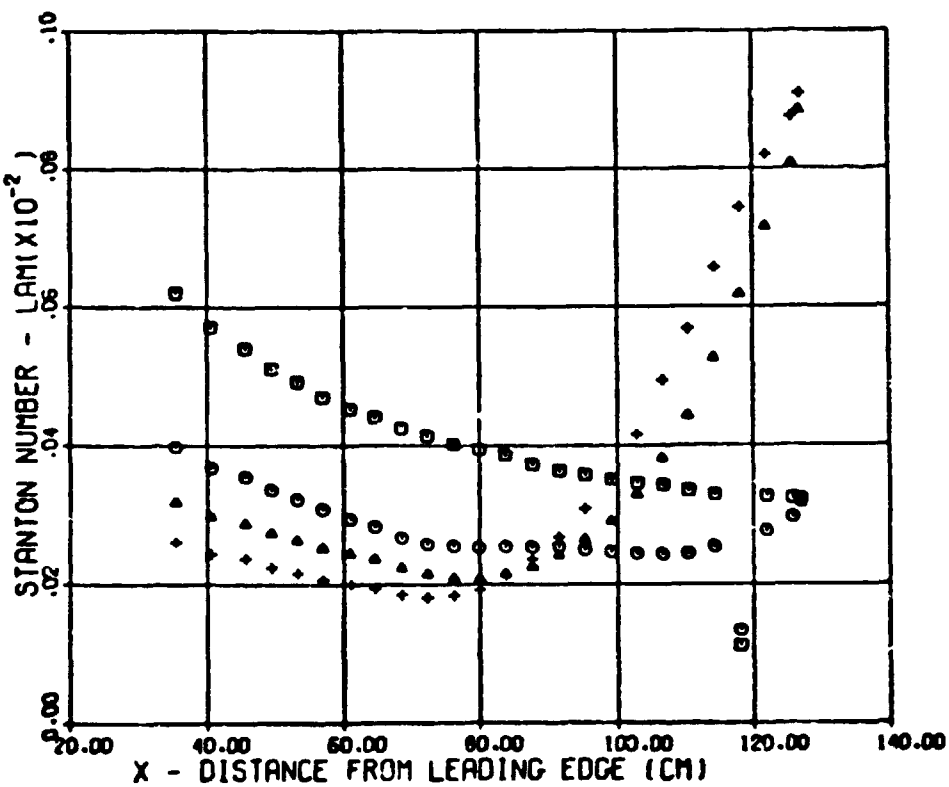
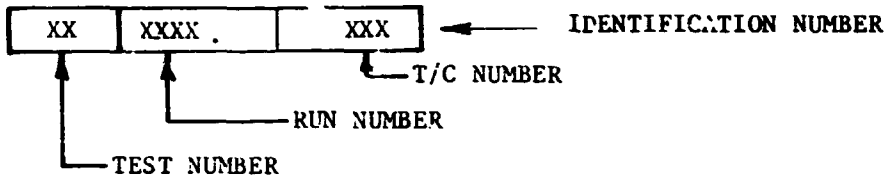


Figure 4.1-11

4.2 Explanation of Terminology Used in Data Listing - Results from the AMES 3.5 Ft. H.W.T. tests presented in Section 4.3 are organized by run number and within each run are segregated into one of three lateral zones across the panel. Total pressure and total temperature probes were located at Y = -20.54, 0 and +20.54 cm, hence the data segregation. Unit Reynolds number was computed for each probe. Information contained in Section 4.3 is in terms of SIU units.

The terminology used in the data listing is as follows:



G-CF	=	GAP CONFIGURATION
LOC	=	INSTRUMENTATION LOCATION
X	=	DISTANCE DOWNSTREAM FROM L DING EDGE OF CARRIER PLATE
Y	=	LATERAL DISTANCE FROM MODEL CENTERLINE
Z	=	DISTANCE FROM TOP OF TILE (X, Y, Z, FORM RIGHT HAND COORDINATE SYSTEM)
X(BAR)	=	DISTANCE FROM LEADING EDGE OF TILE
H/HE	=	CONVECTIVE HEAT TRANSFER COEFFICIENT IN GAP RATIOED TO COEFFICIENT MEASURED ON TOP OF TILE
A(RAD)	=	FLOW ORIENTATION - RADIANS
GAP	=	GAP WIDTH
STEP	=	STEP HEIGHT
FLOW-L	=	GAP FLOW LENGTH
GAP-D	=	GAP DEPTH
PATN	=	TILE PATTERN (0 = STAGGERED, 1 = IN-LINE)
MACH	=	MACH NUMBER
RE/METER	=	UNIT REYNOLDS NUMBER PER METER
M-THK	=	MOMENTUM THICKNESS
DESL	=	DISPLACEMENT THICKNESS
SUB-T	=	SUB LAYER THICKNESS
H	=	HEAT TRANSFER COEFFICIENT BASED ON HAW/HT = .874
H/HREF	=	CONVECTIVE HEAT TRANSFER COEFFICIENT IN GAP RATIOED TO COEFFICIENT ON CALIBRATION PLATE AT THE SAME LOCATION

NSTT = STANTON NUMBER BASED ON FREE STREAM CONDITIONS AND HEAT TRANSFER COEFFICIENT

TW/TE = TEMPERATURE RATIO ACROSS BOUNDARY LAYER

B.L. = BOUNDARY LAYER STATE (1 = LAMINAR, 2 = TRANSITIONAL, 3 = TURBULENT)

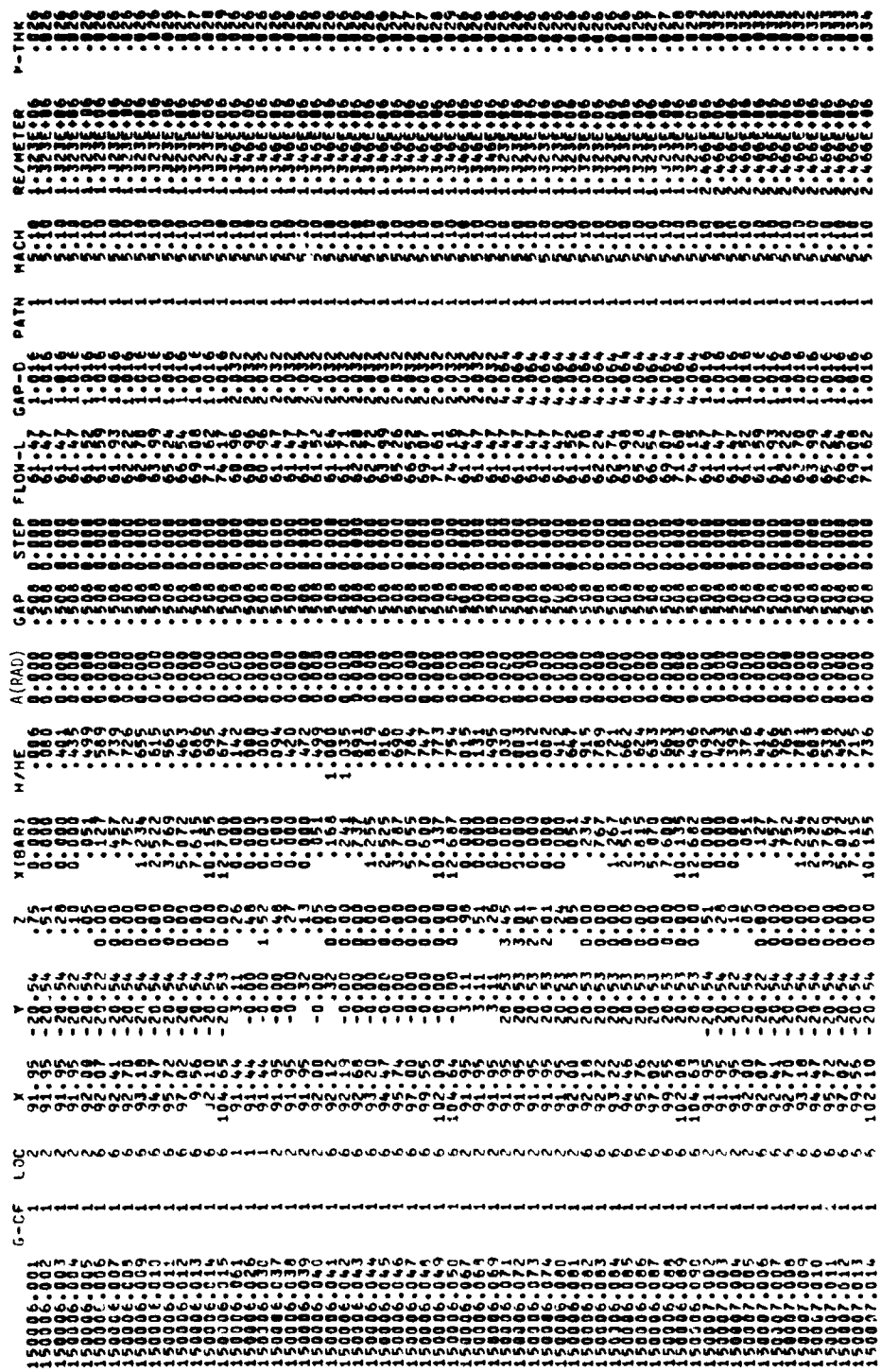
NTØL = DATA SEQUENCE NUMBER

Information for thermocouples with abnormal data is omitted from data listing.

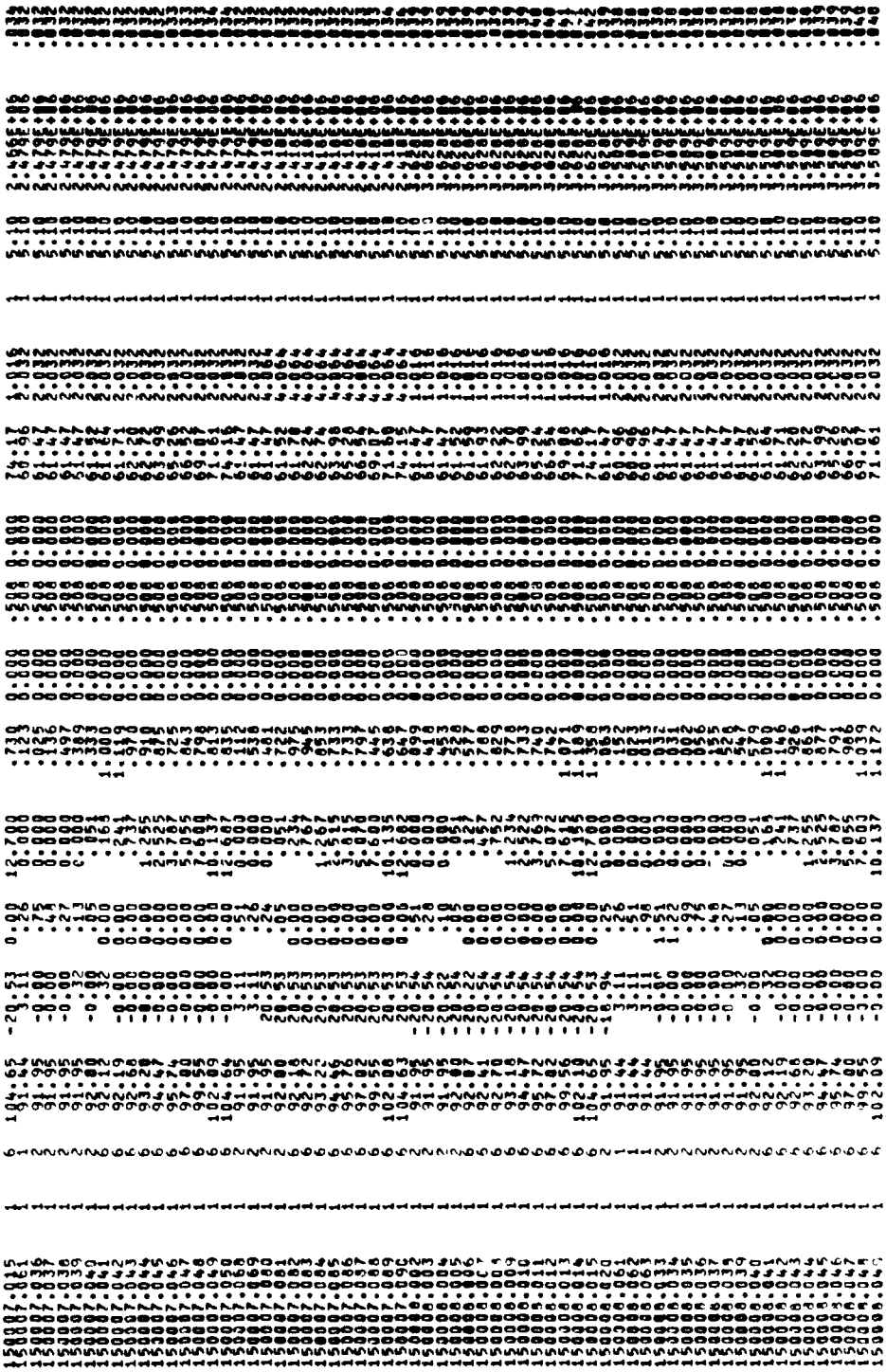
4.3 Ames (Original Test) Expanded Data Listing - This section contains the program for transcribing data from the Ames 3.5 Foot H.W.T. into the Data Bank and the tabulation generated by the program. The program listing is included for completeness and also documents those steps necessary to process the data into the Data Bank. The data listing begins on Page 4.3-6. This listing employs the "24 Attribute Word List" (described in Volume 1, Section 5) used in the data selection and data correlation programs.

```
      PROGRAM JCLC(INPUT=100,OUTPUT,TAPE5=INPUT,TAPE6=OUTPUT,
     1   TAPE15=102,TAPE16=102,TAPE23=102)
C
C     AMES 3.5 H.M.T.ORIGINAL MRSI GAP TESTS B.L. DEFINATION
C                    M.E.CHRISTENSEN JAN 75
C
      DIMENSION W(24,200),  WORD(24),IWORD(24)
C
      EQUIVALENCE (WORD,IWORD)
      DIMENSION XTRANS(6,3),REPMT(6),YSTATN(3)
      DATA XTRANS/160.,110.,92.,80.,74.,68.,
     1           180.,120.,99.,85.,78.,80./
      DATA YSTATN/-20.,3359.,0.,20.,3359./
      DATA REPMT/1.0E06,2.0E06,2.5E06,3.0E06,3.5E06,4.5E06/
      OREPM=0.0
      YOLD=-10.6
      KK=0
C
    2 CONTINUE
      READ(15) N1,((W(KM,JN),KM=1,24),JN=1,N1)
      IF(EOF(15)) 10,20
   10 STOP 10
   20 WRITE(16,9220)
      WRITE(23,9220)
      WRITE(16,9150)
      WRITE(23,9150)
      DO 45 N=1,N1
      KK=KK+1
      DO 40 J=1,24
      IWORD(J)=W(J,II)
   40 IF(WORD(5).GT.OREPM.AND.WORD(5).LE.YOLD) GO TO 44
      CALL DISCHECK(16,WORD(5),REPMT,XTRANS,YSTATN,12,16,3,
     1 OREPM=WORD(5)
      YOLD=WORD(5)
   44 IWORD(24)=2
      IF(KK.EQ.1) IWORD(24)=1
      WRITE(16,9147) WORD(1),IWORD(2),IWORD(3),( WORD(M),M=4,13),IWORD11
     1,IWORD(15),WORD(16),IWORD(17),(WORD(M),M=18,23),IWORD(24),KK
      WRITE(23,916) WORD(1),(WORD(M),M=1,24),JN=1,N1)
   45 CONTINUE
      WRITE(16) N1,((W(KM,JN),KM=1,24),JN=1,N1)
C
      GO TO 2
  915 FORMAT(1H1,3X,"G-CC  LOC    Y      RE/METER  H/HREF
     1  GAP  STEP FLOW-L  GAP-D  PATH  MACH    (BAR)  H-THR*)
  916 FORMAT(1H ,4X,"DELS   SUB-T    M      A(RAD)  WSTT    TW/TE
     1   B.L.  NTOL*),
  917 FORMAT(F12.3,2F5.2,2F6.2,2F6.3,F7.3,2F6.3,F6.2,F7.3,I5,F7.2,E11
     1.3,F8.3)
  918 FORMAT(F12.3,2F6.2,E11.3,5E13.3,2I3)
  919 FORMAT(" RUN=",I6," HREF=",5E13.3,2I3)
  920 FORMAT(1H1)
      END
```

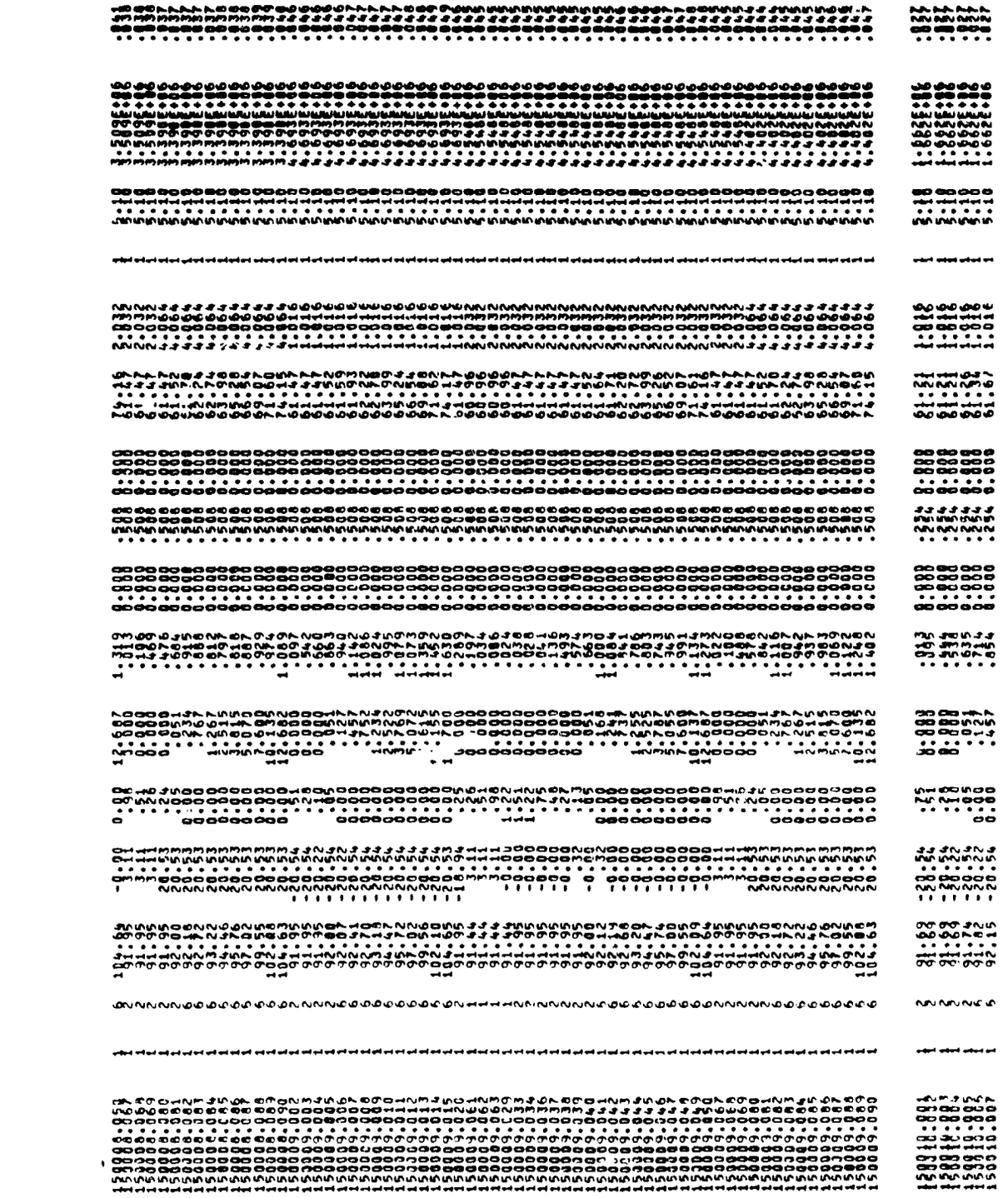
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OF POOR QUALITY

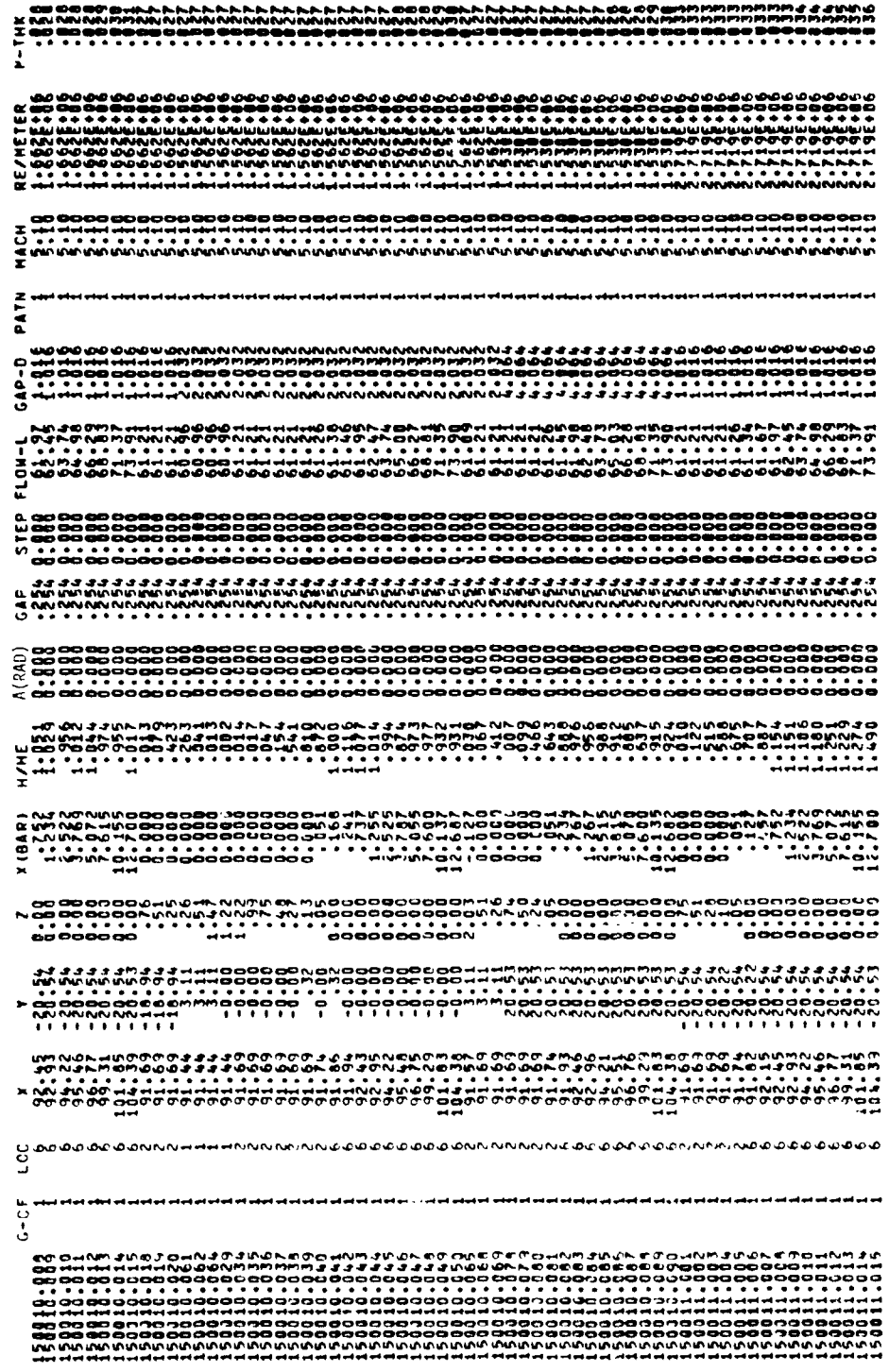


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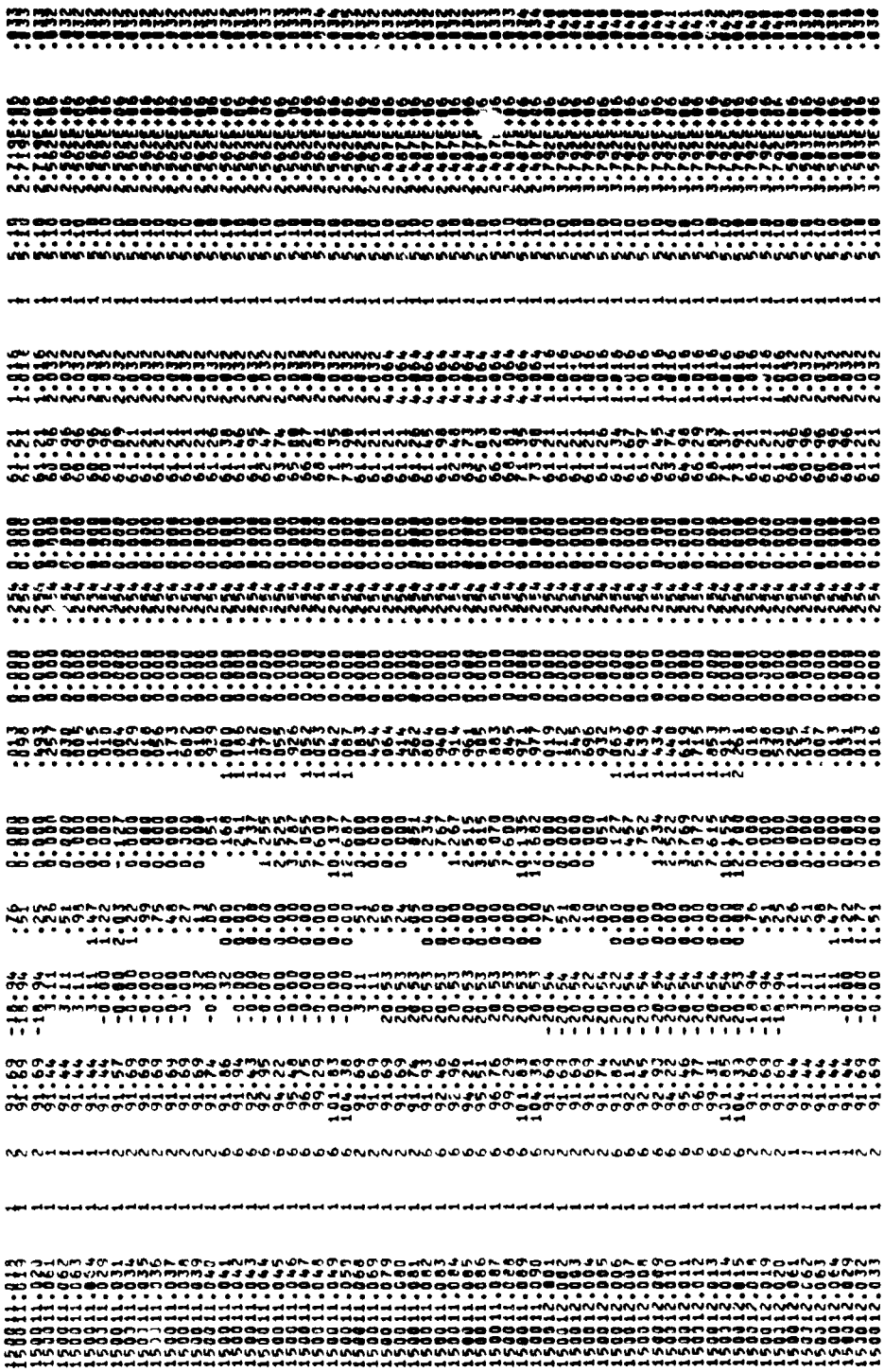


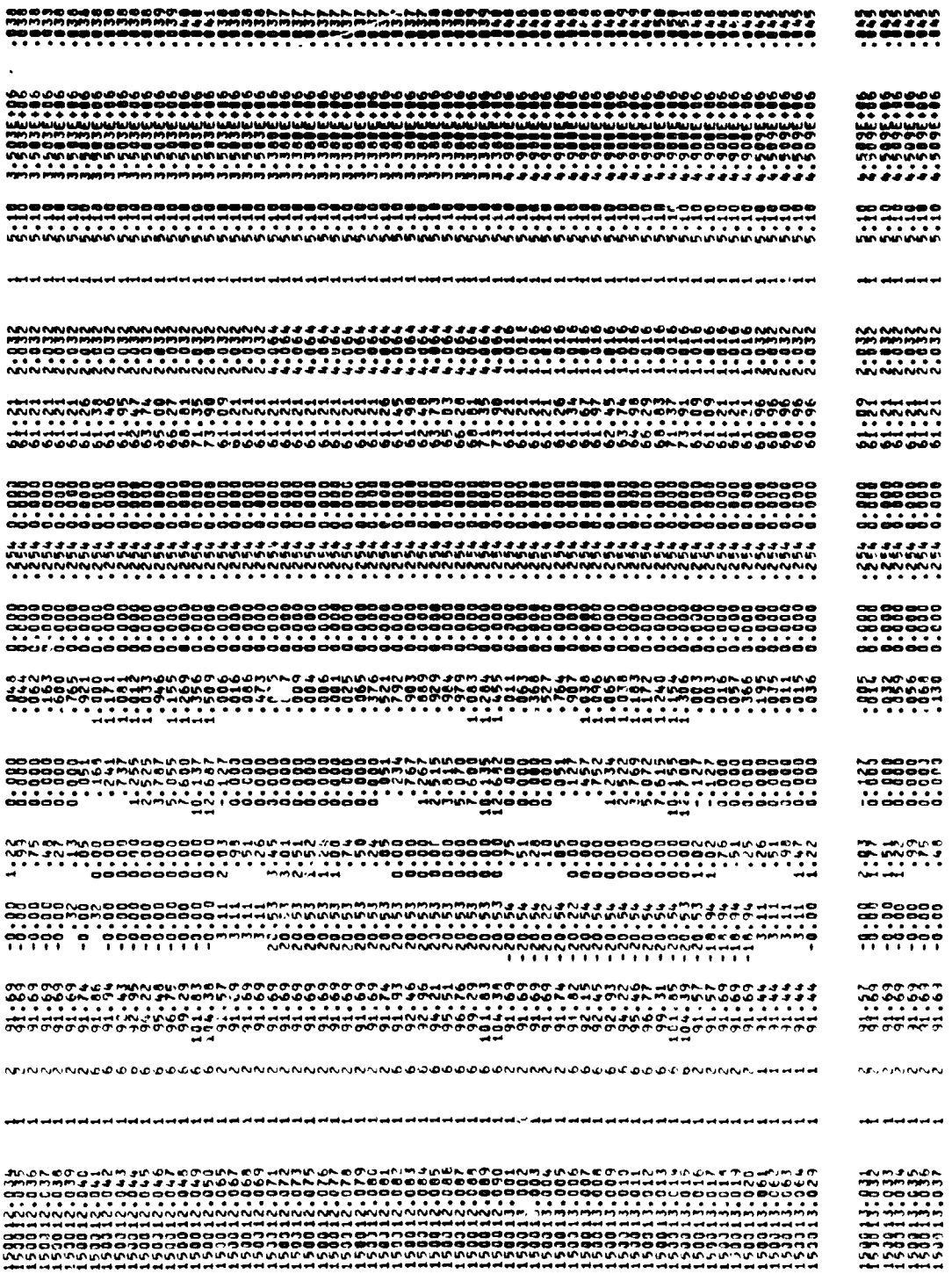
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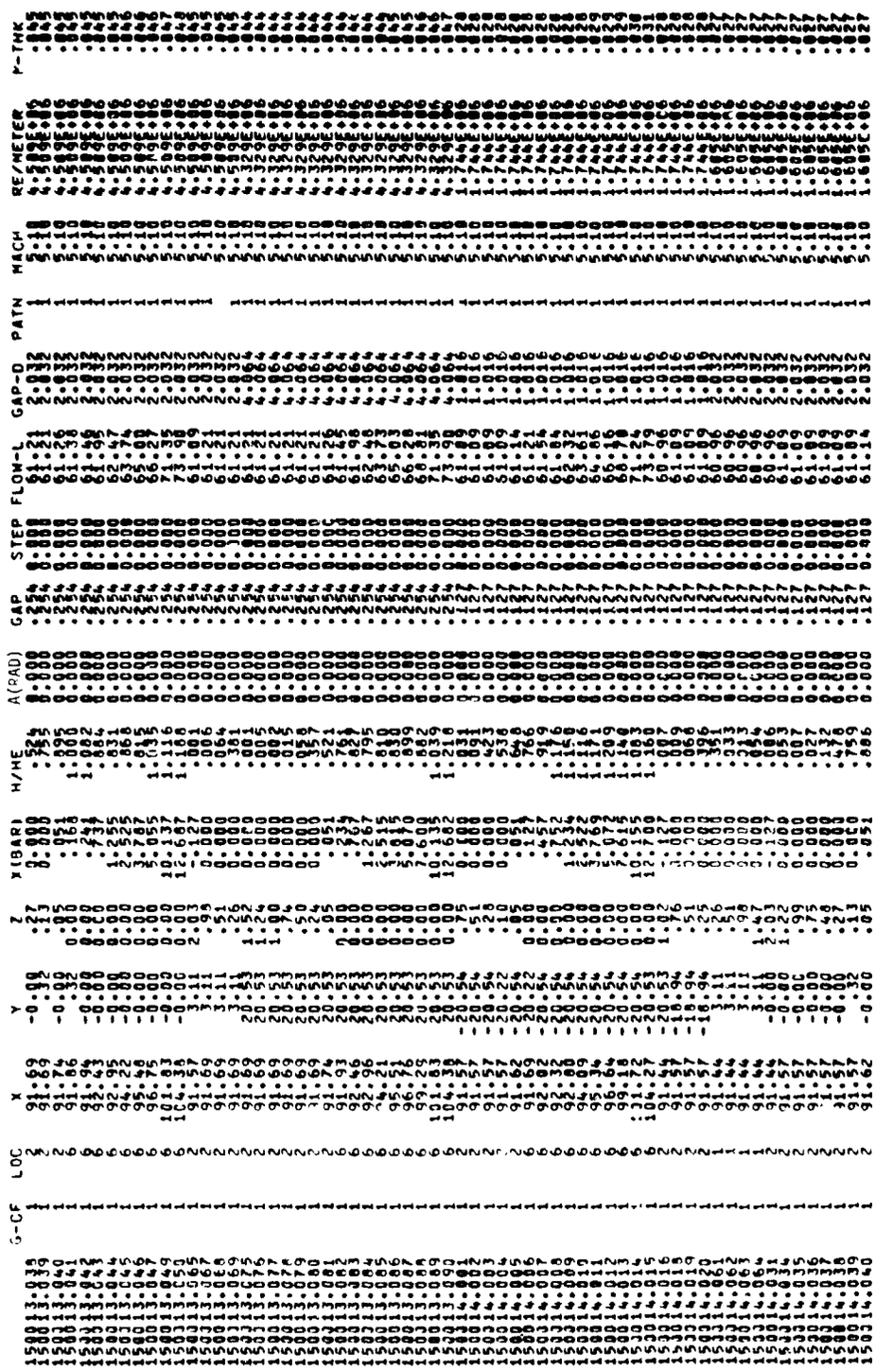




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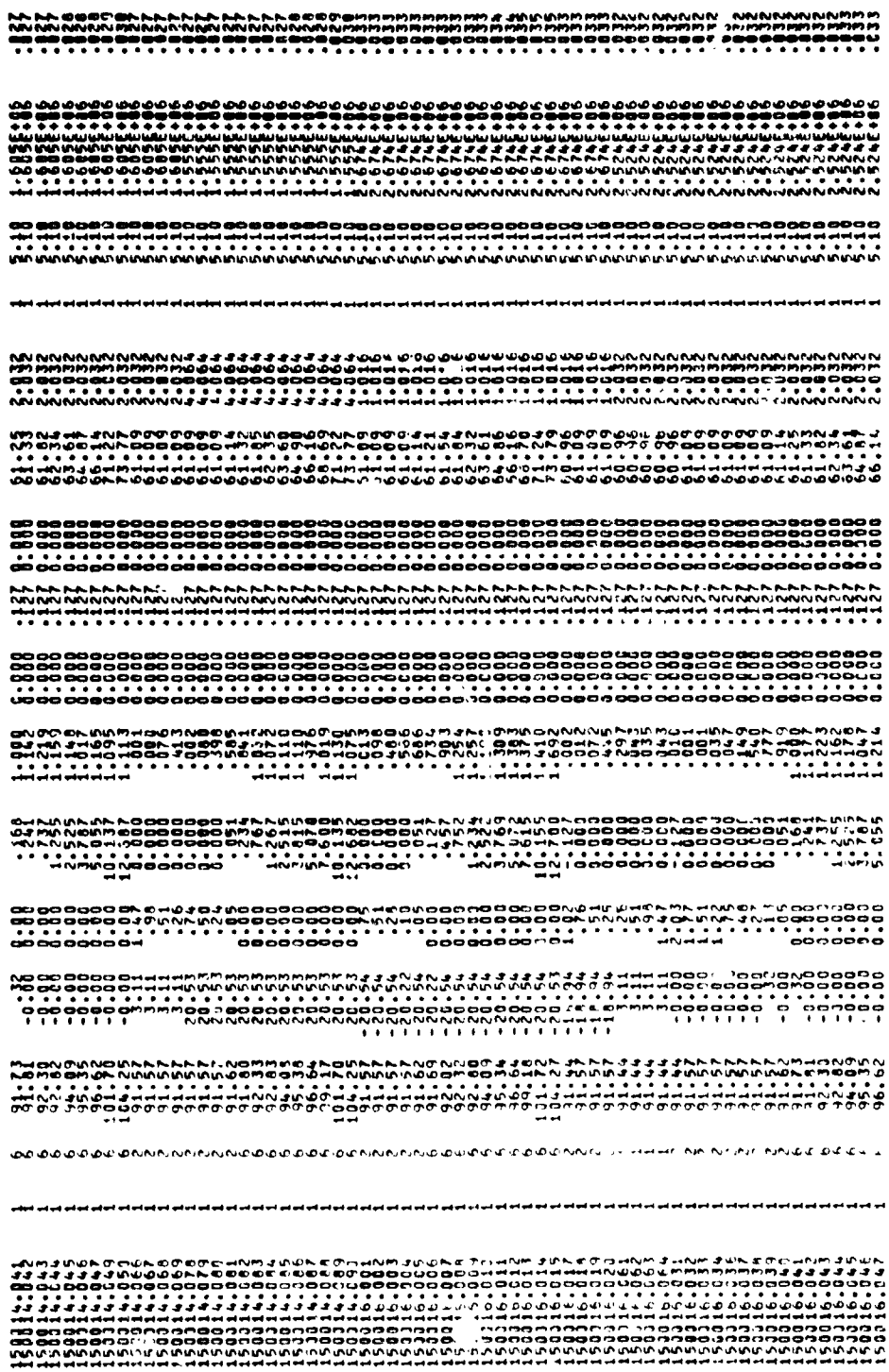



P-THK
RE/METER
MACH
PATN
GAP-D
FLOW-L
STEP
GAP
A(RAD)
H/HE
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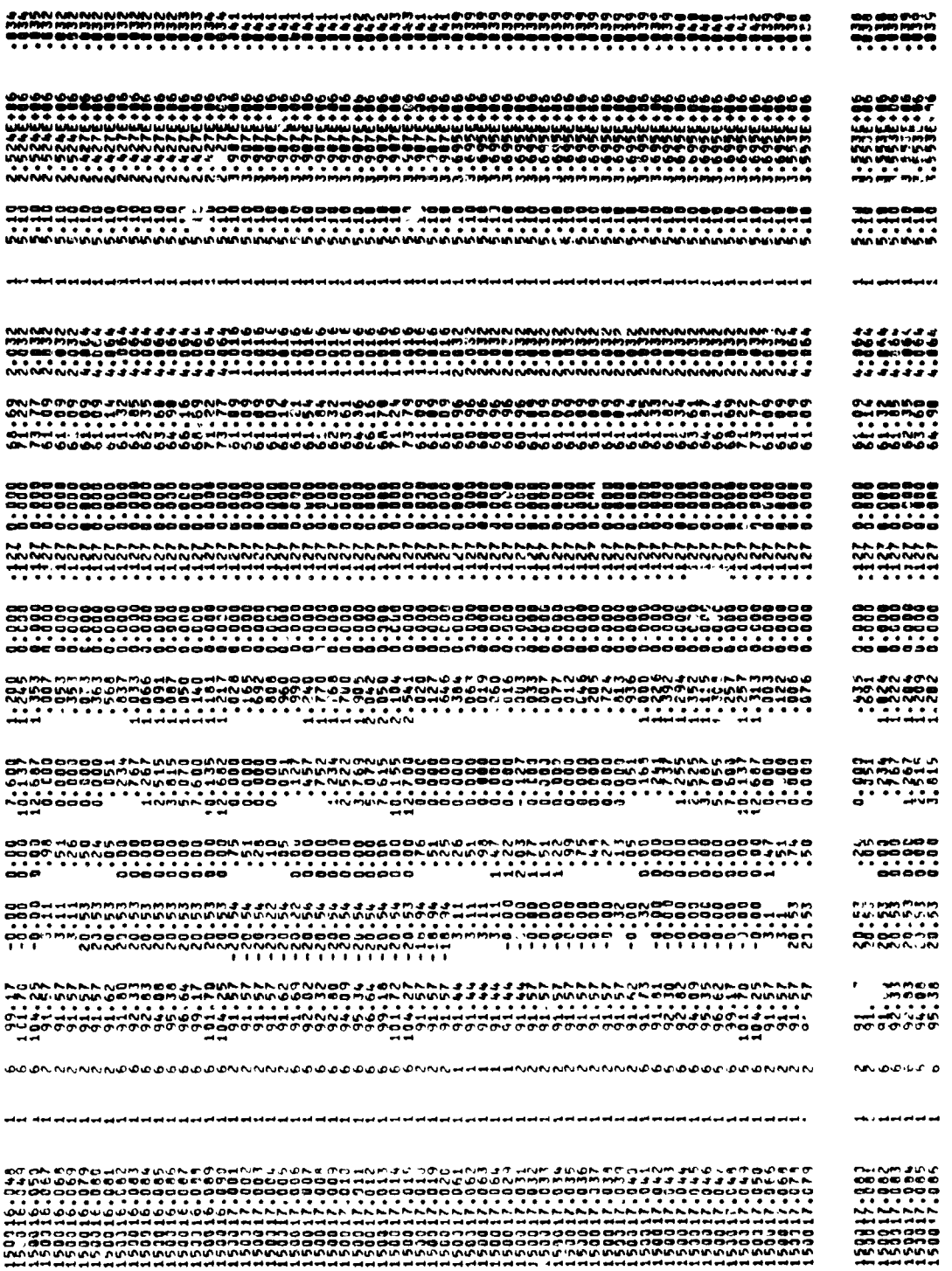
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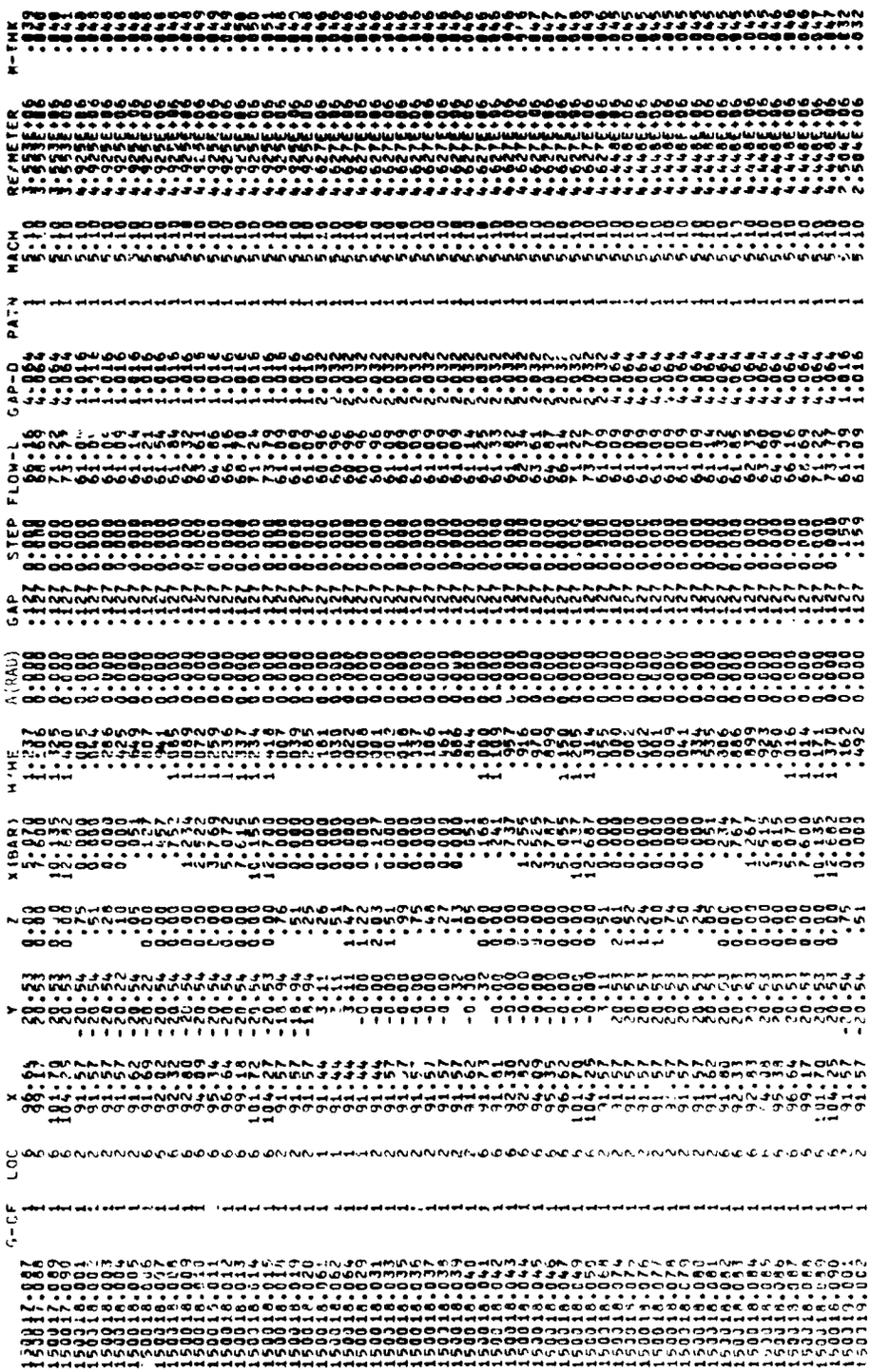
VOLUME II

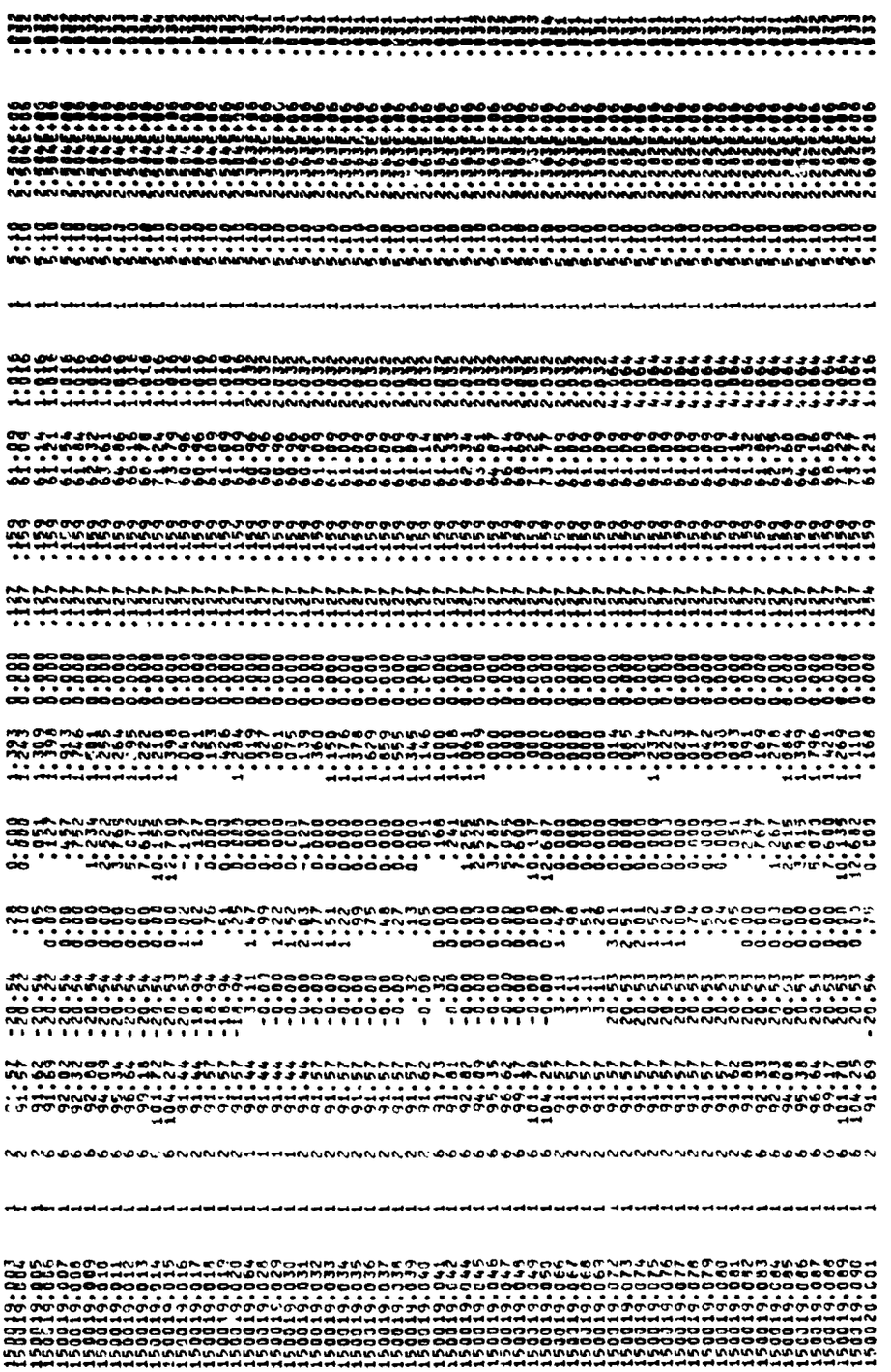
REPORT MDC E1248
JSC 09651

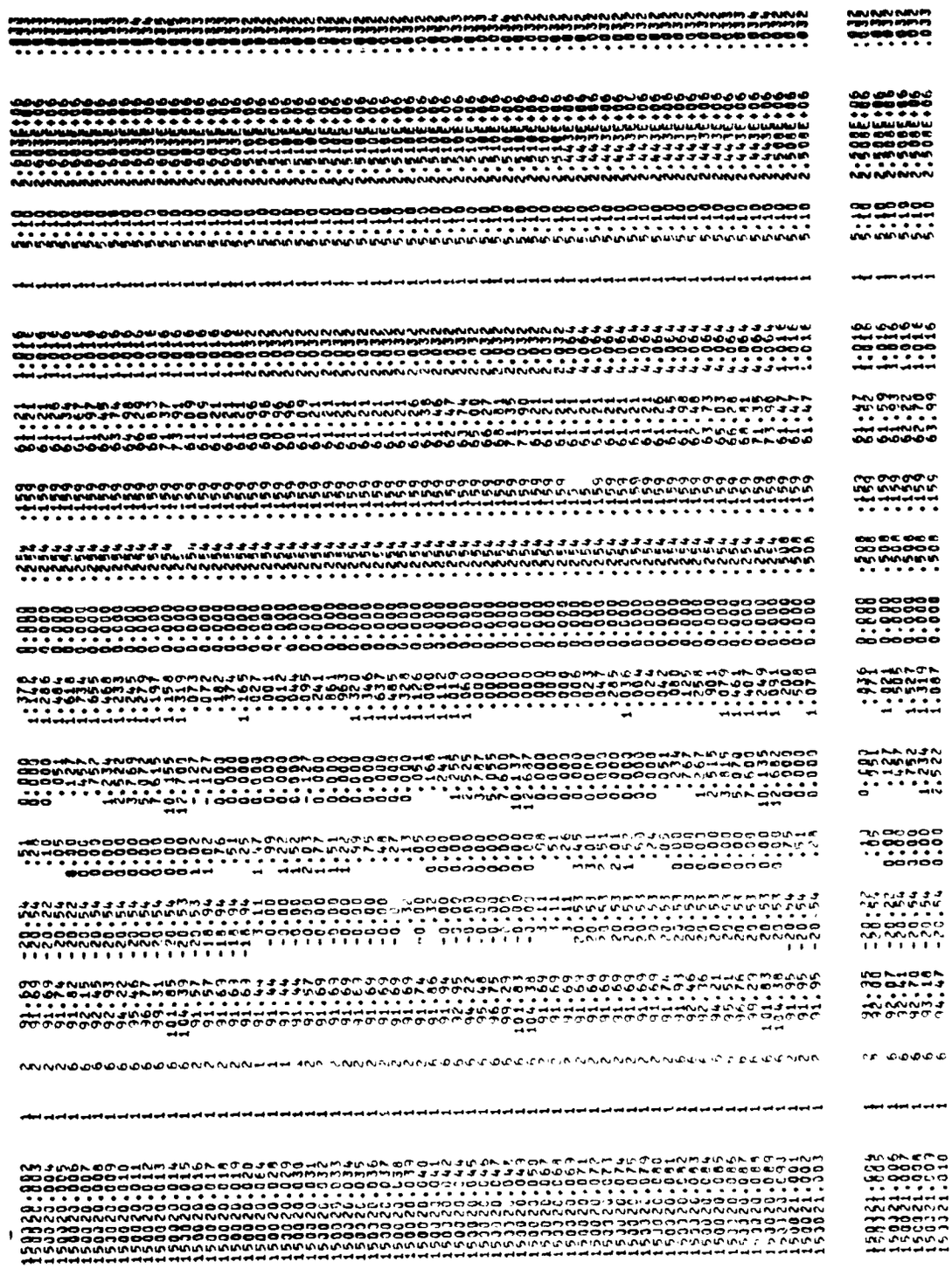


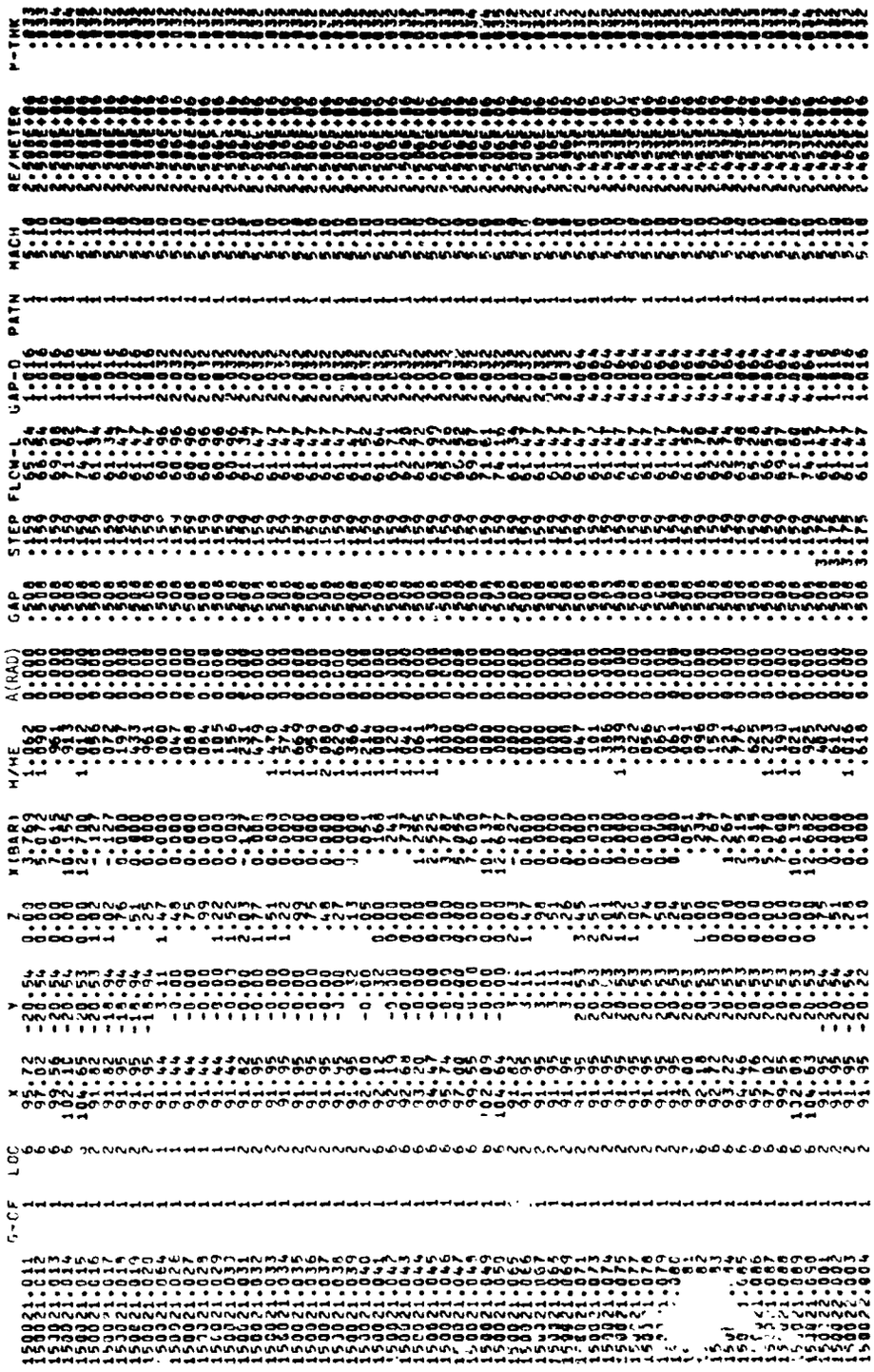
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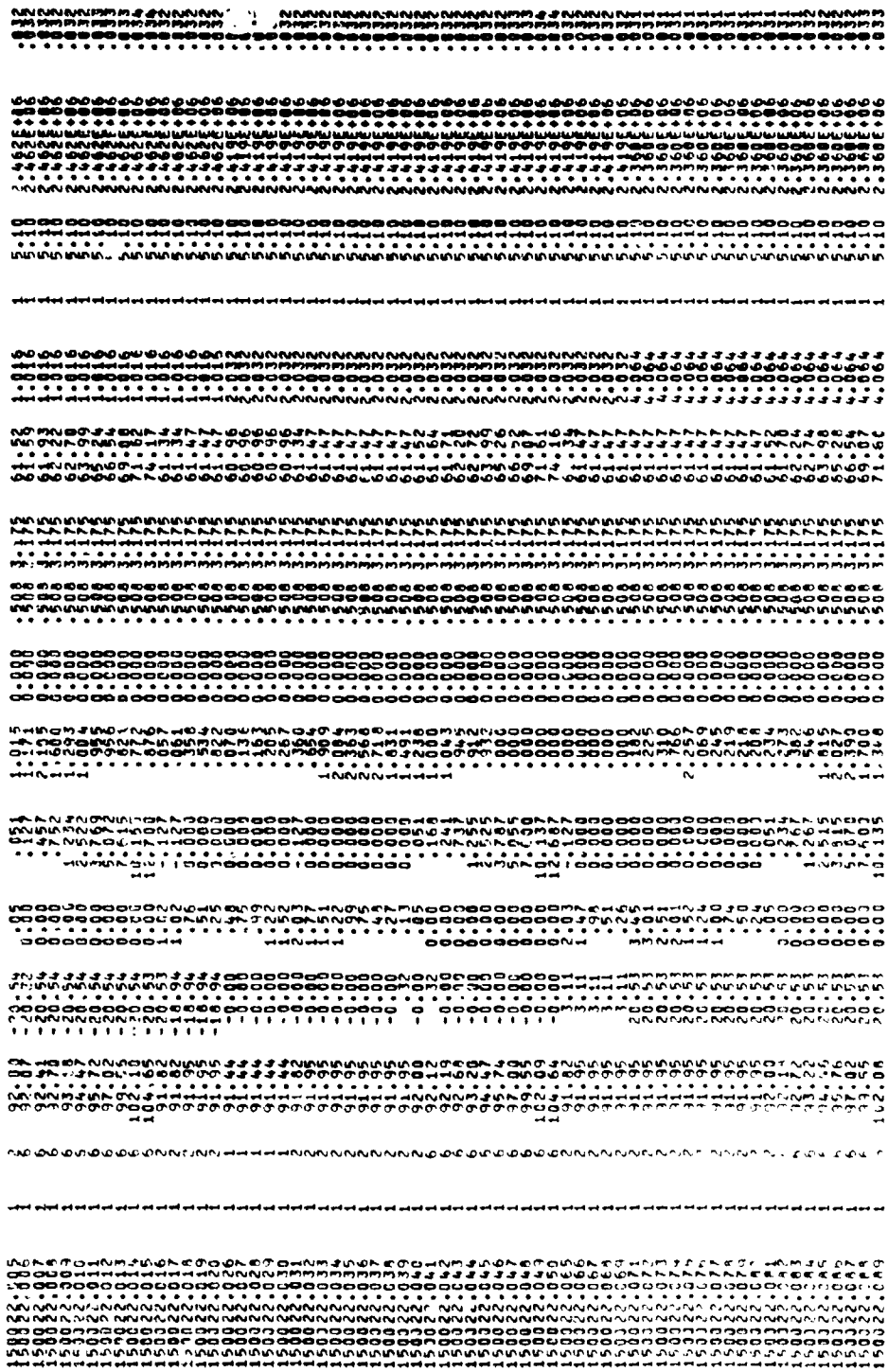


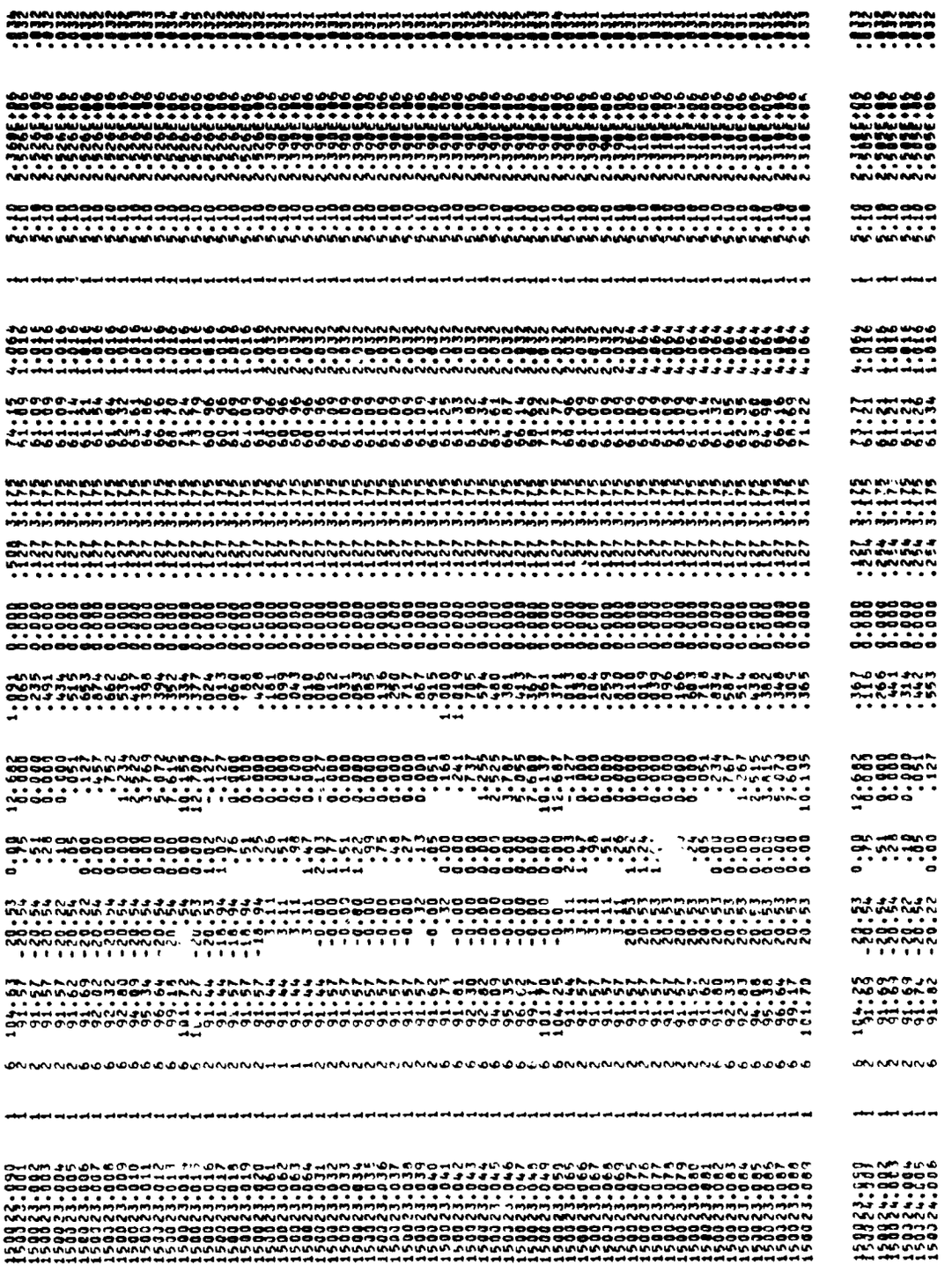

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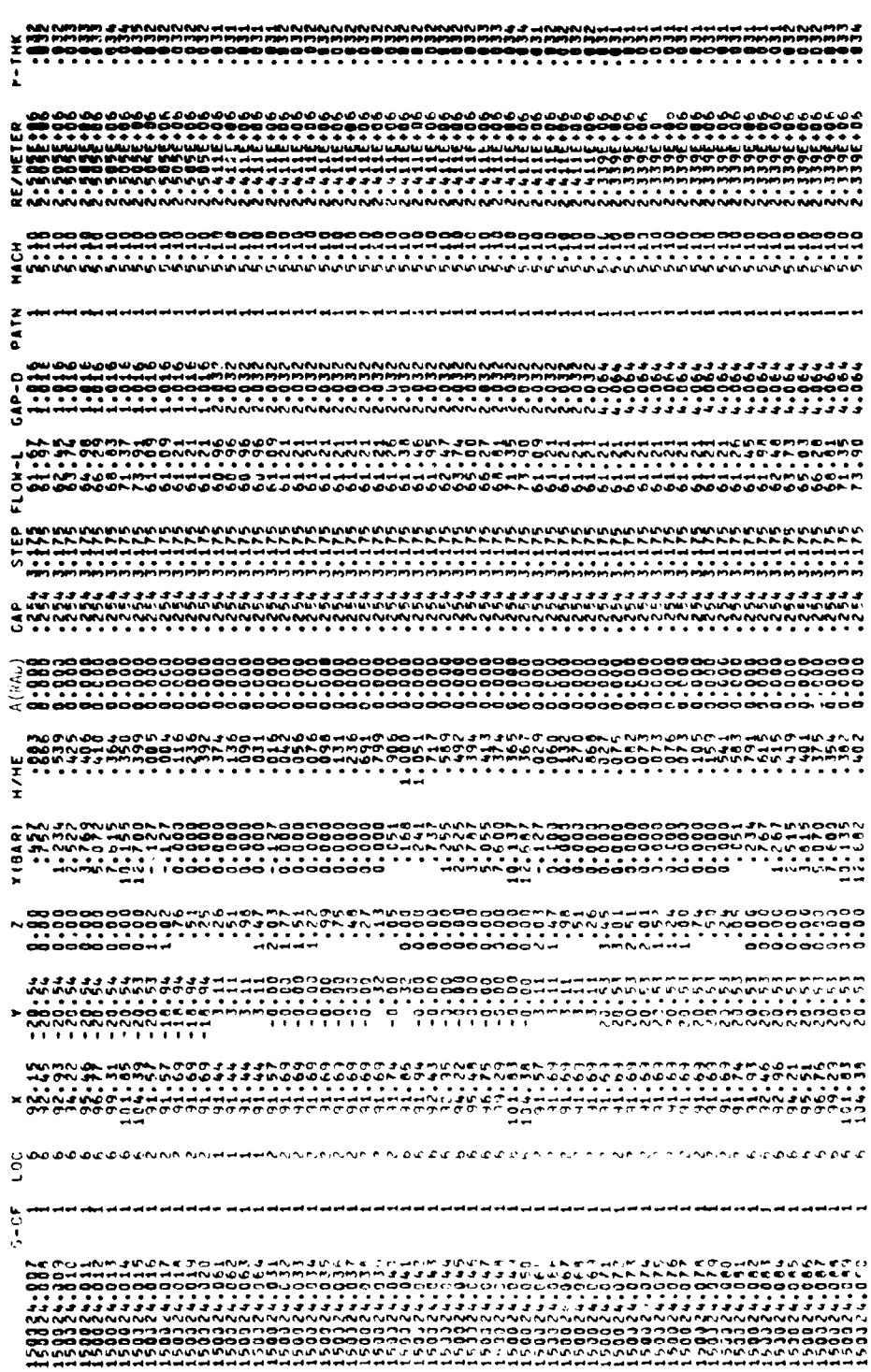




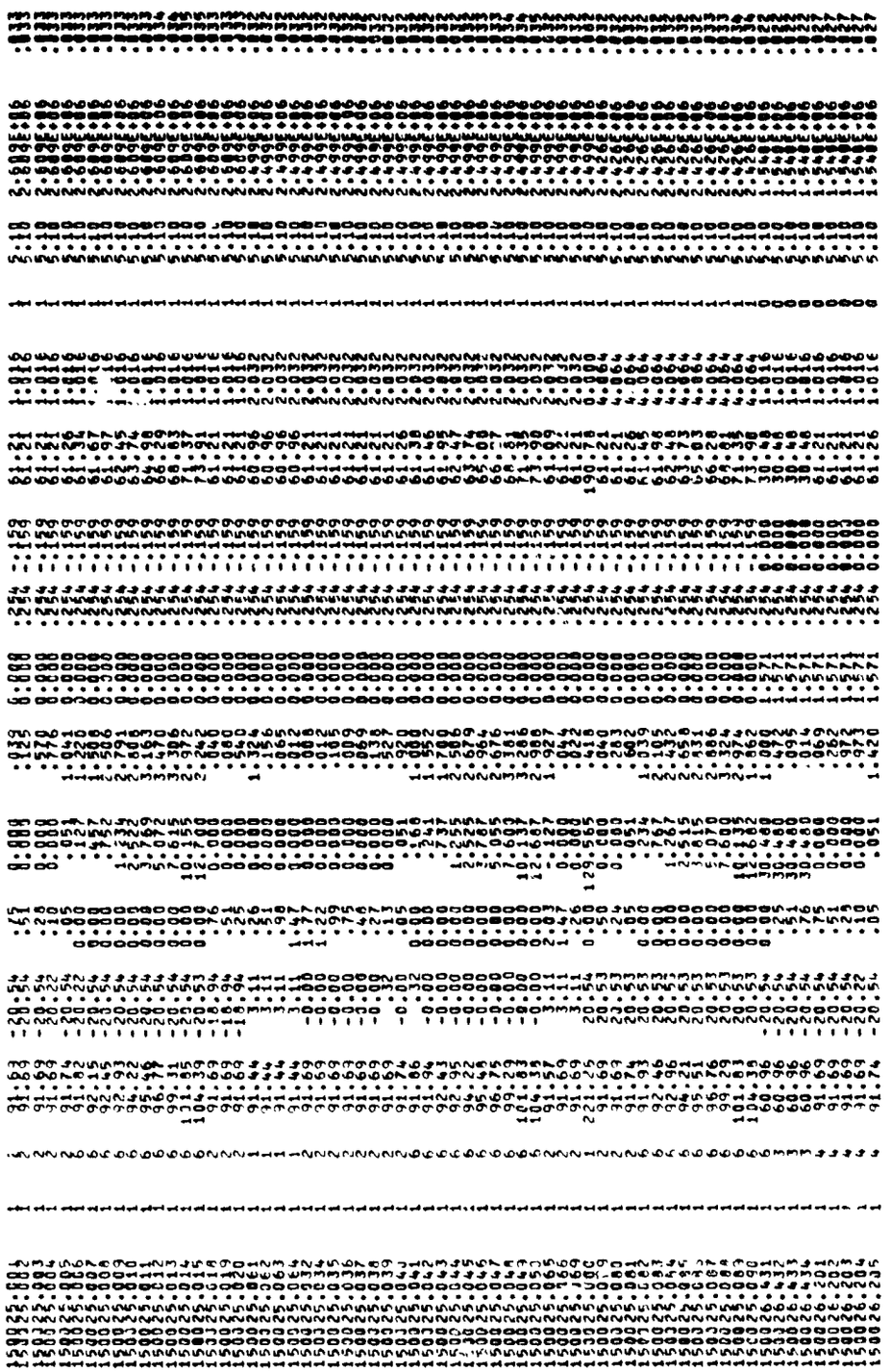

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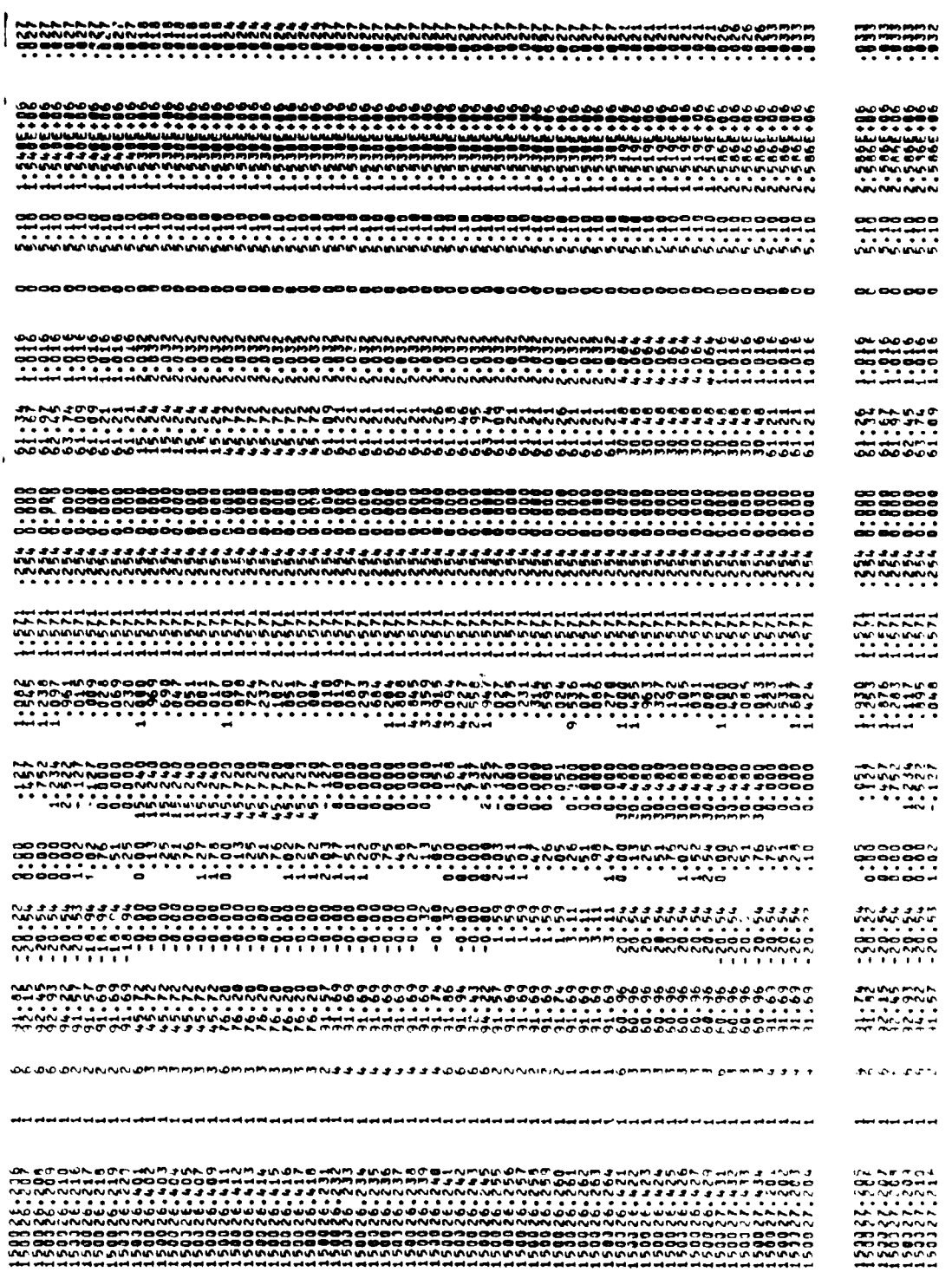


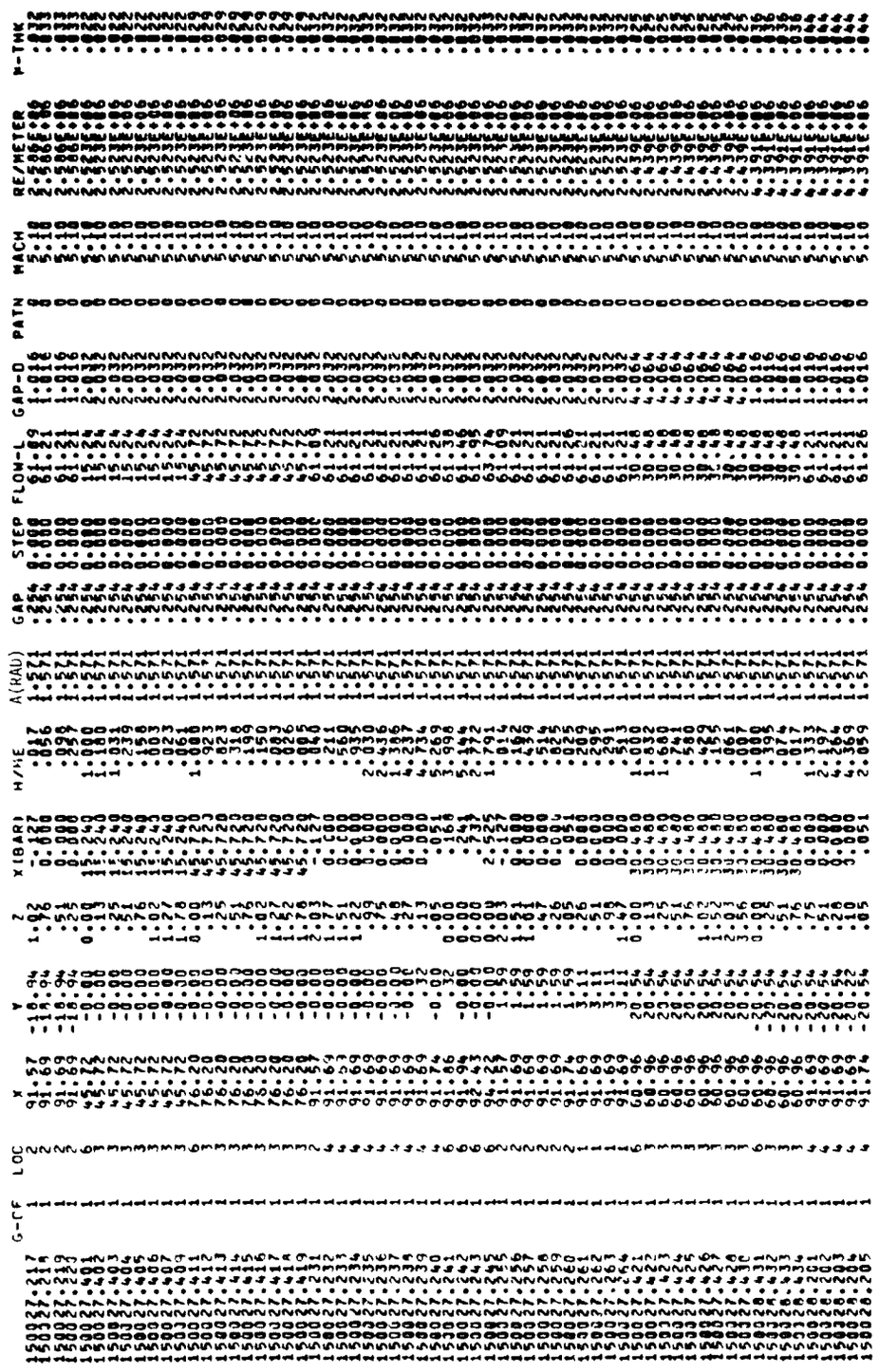




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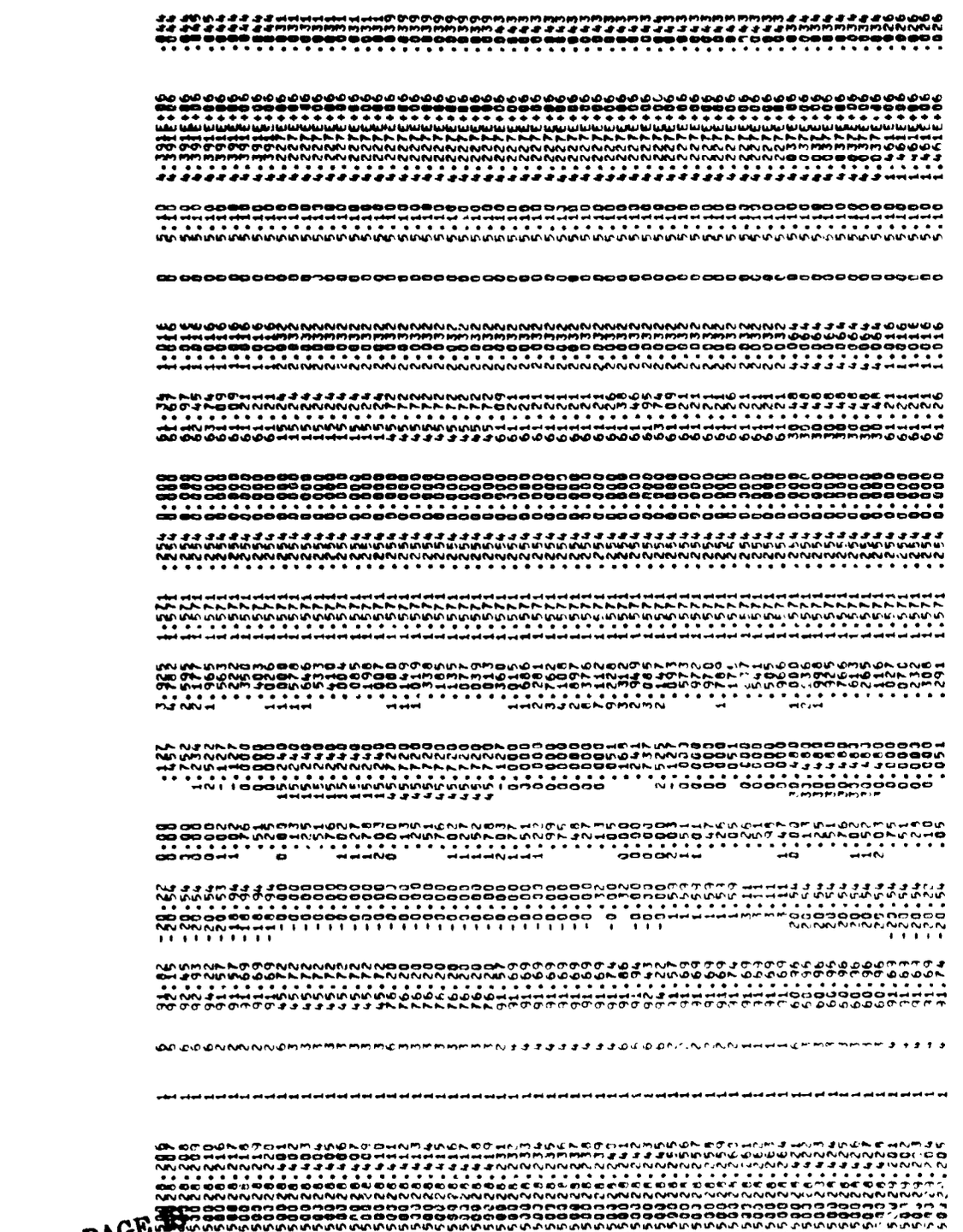




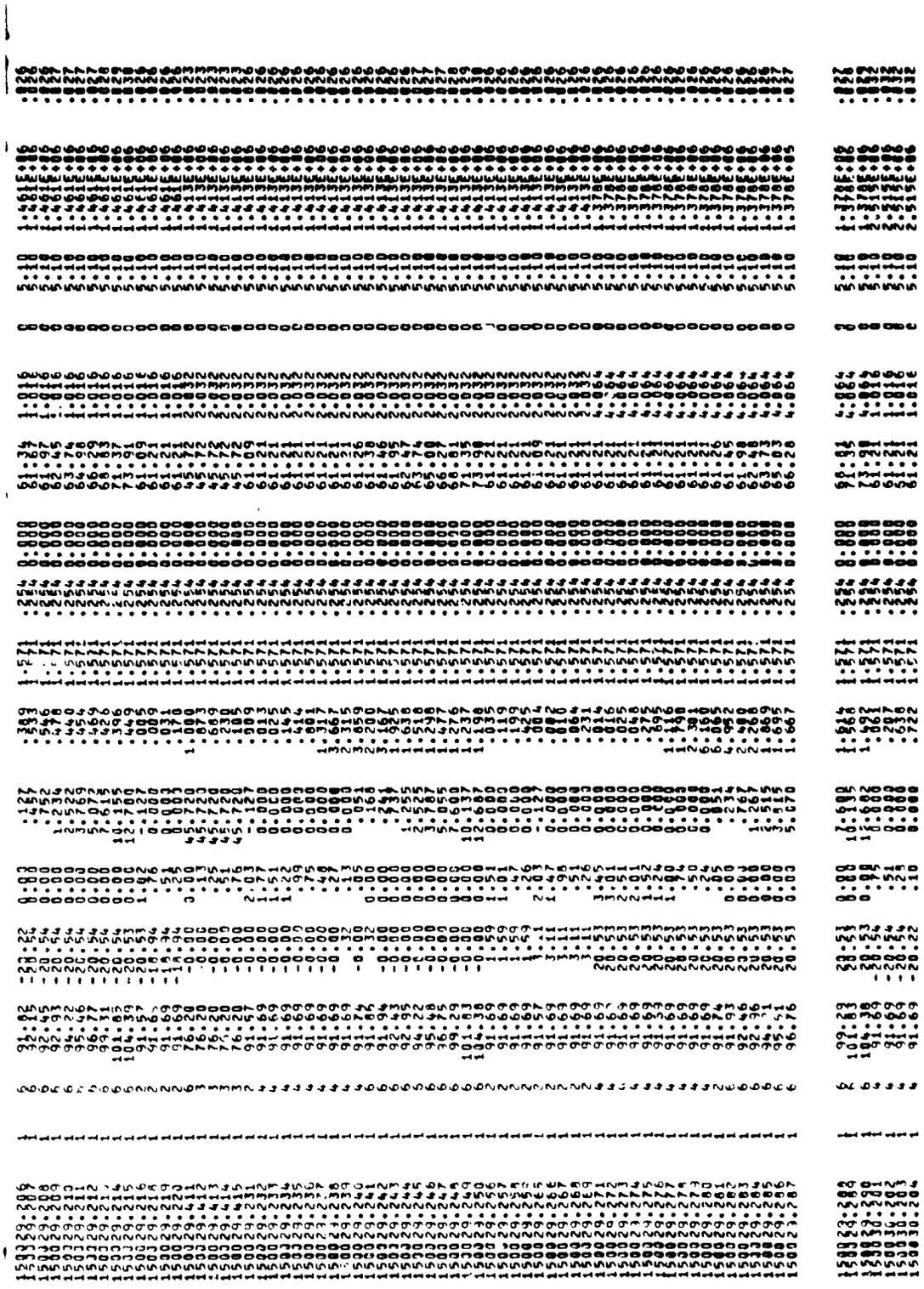

M-TNK
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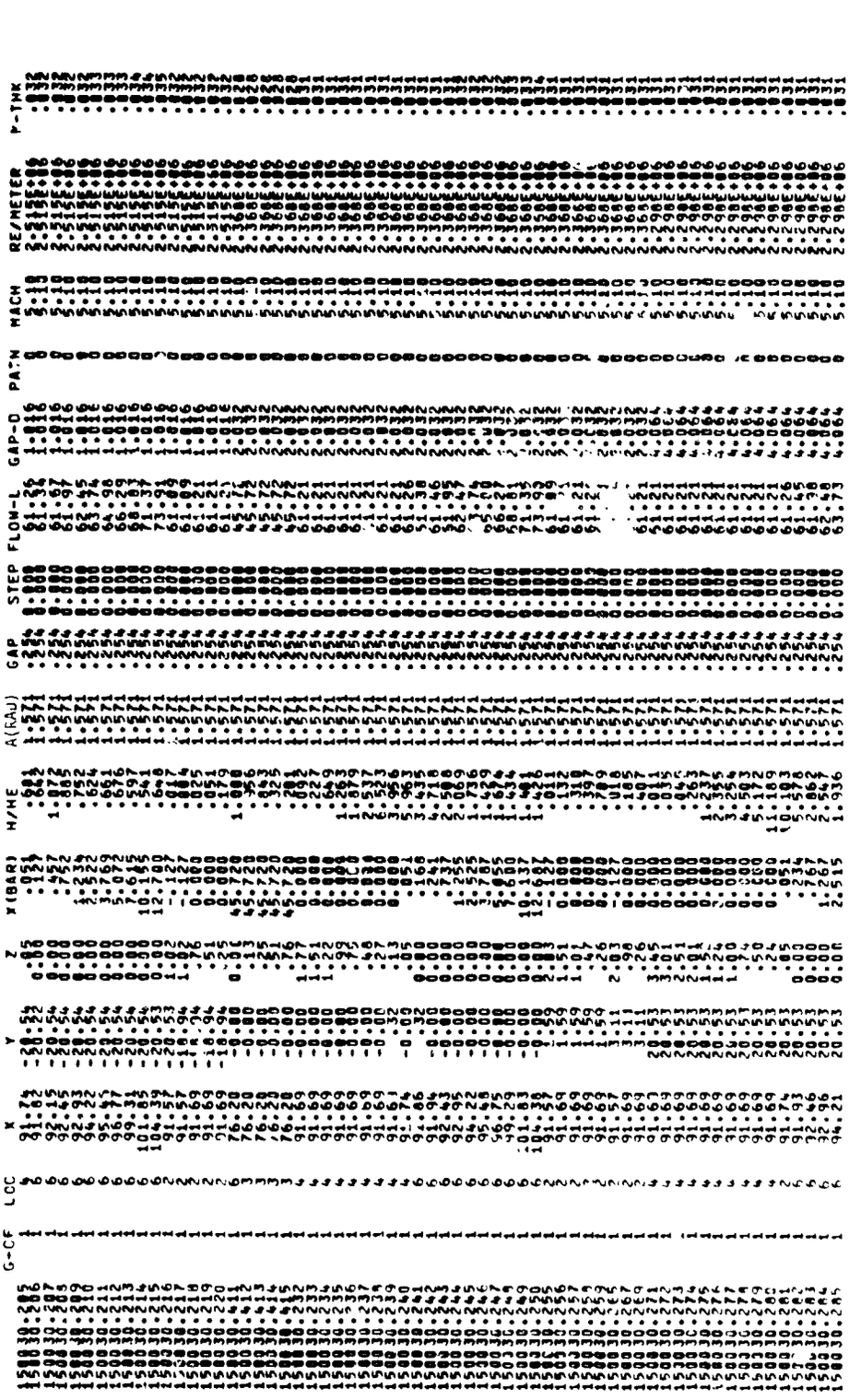
RSI GAP HEATING ANALYSIS – II
VOLUME II

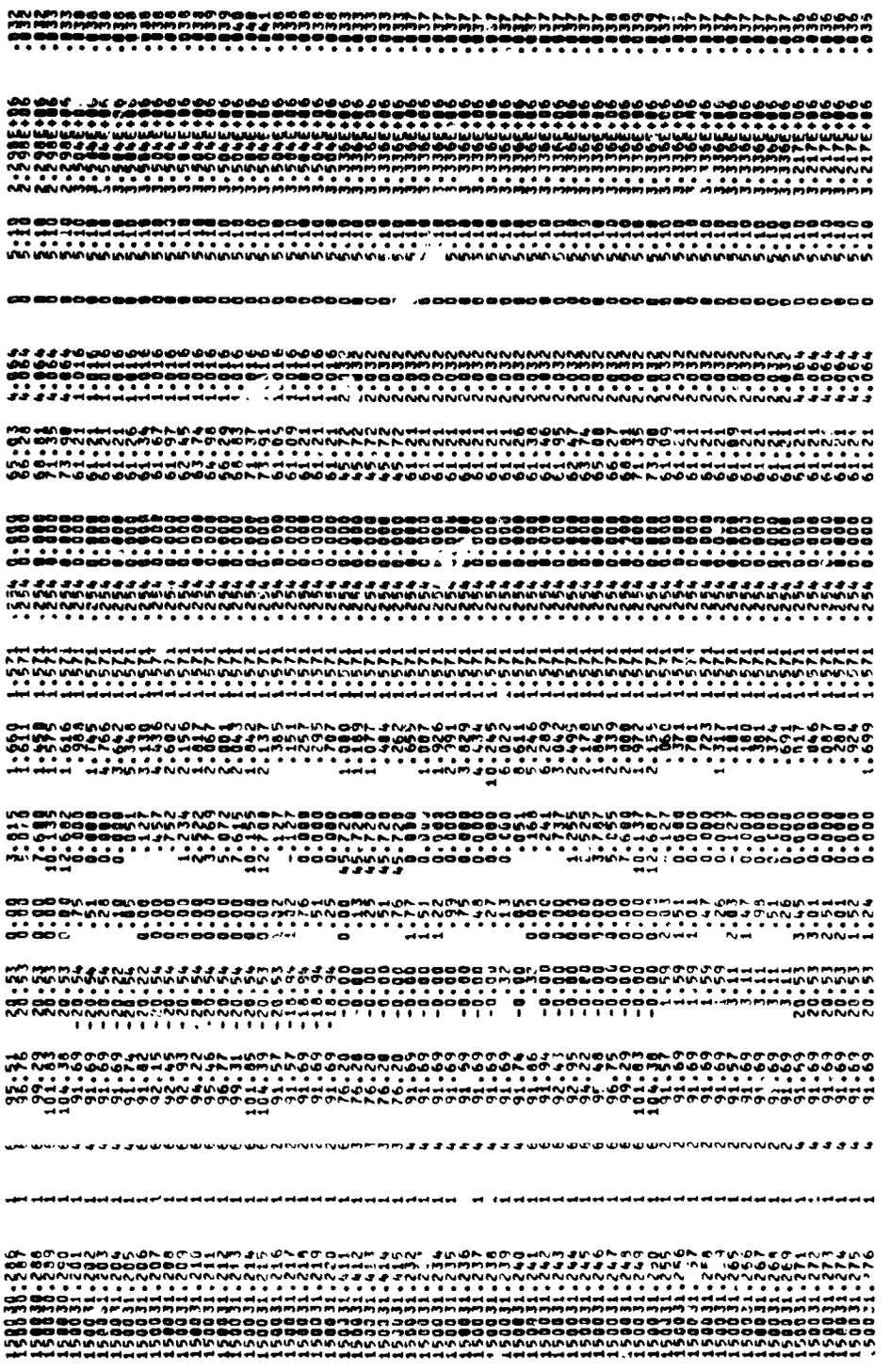
REPORT MDC E1248
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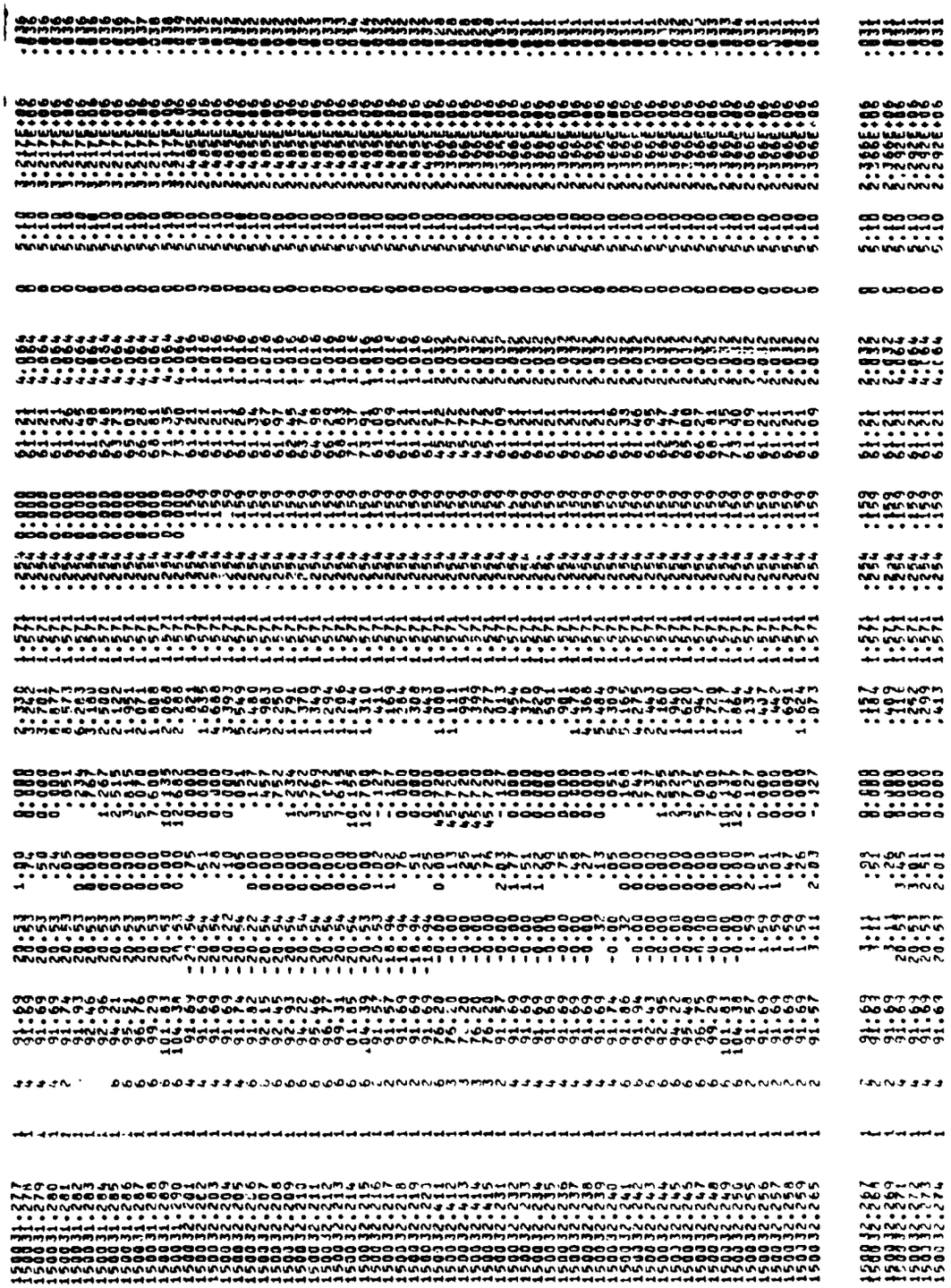


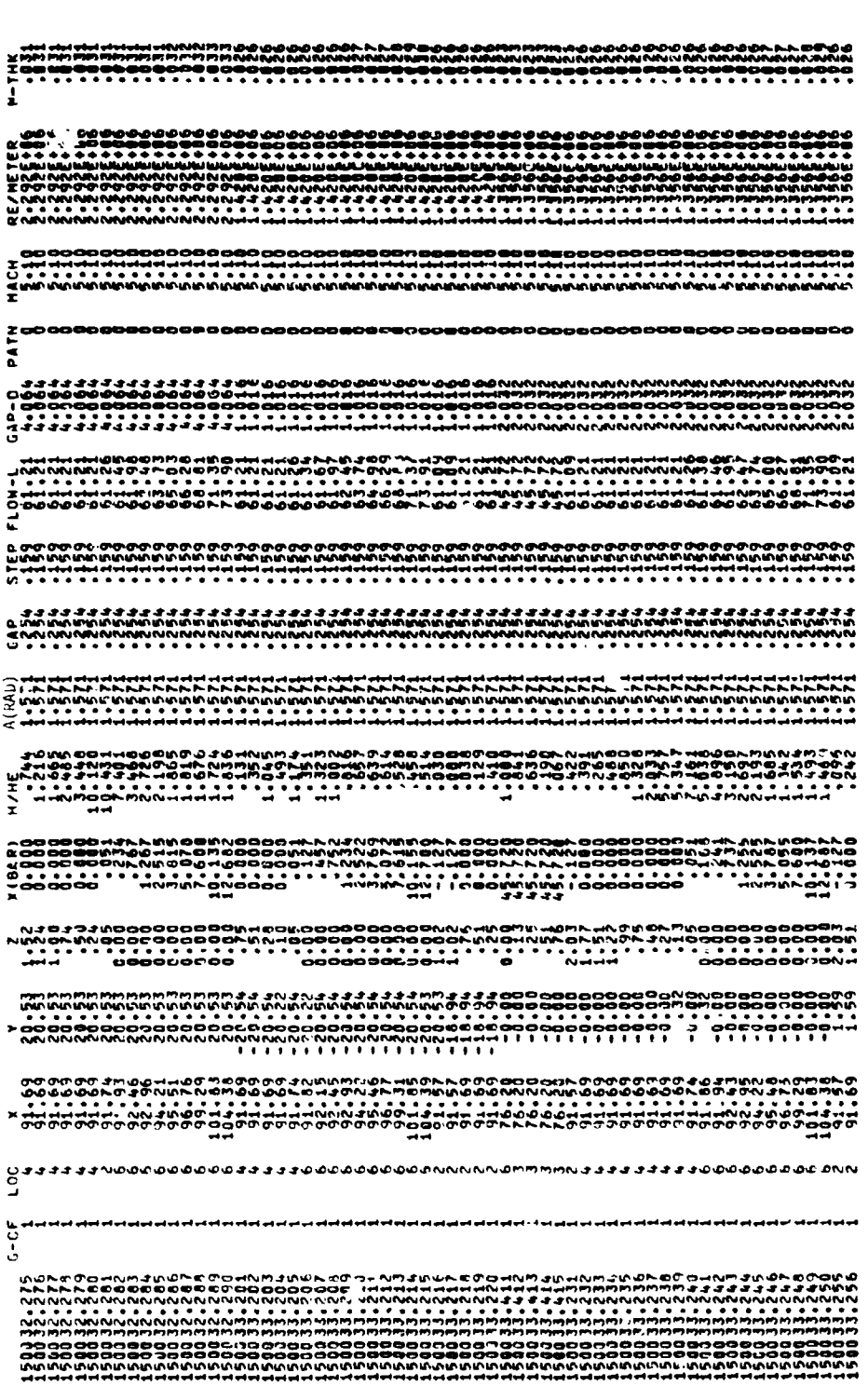
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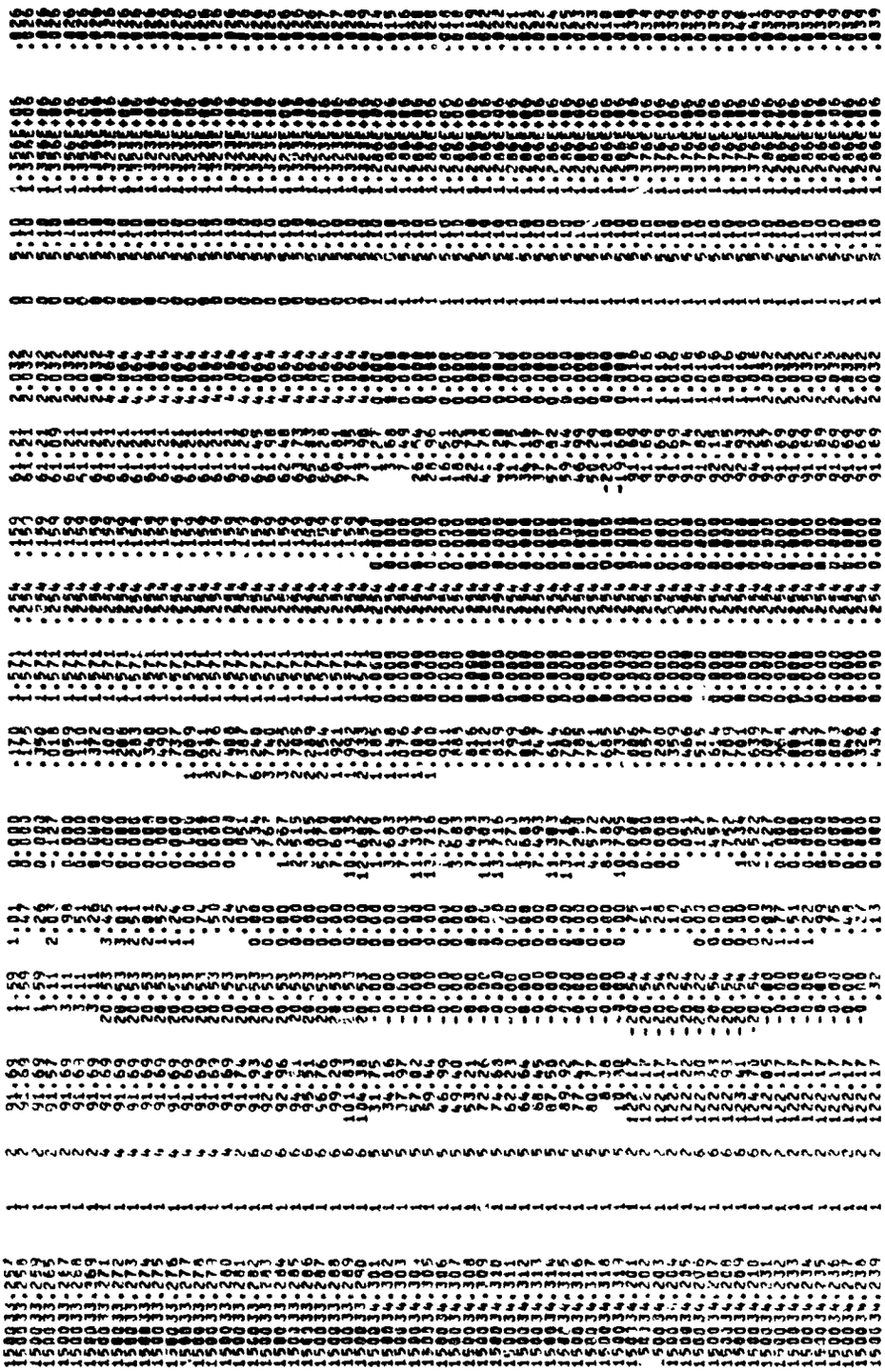



P-THK
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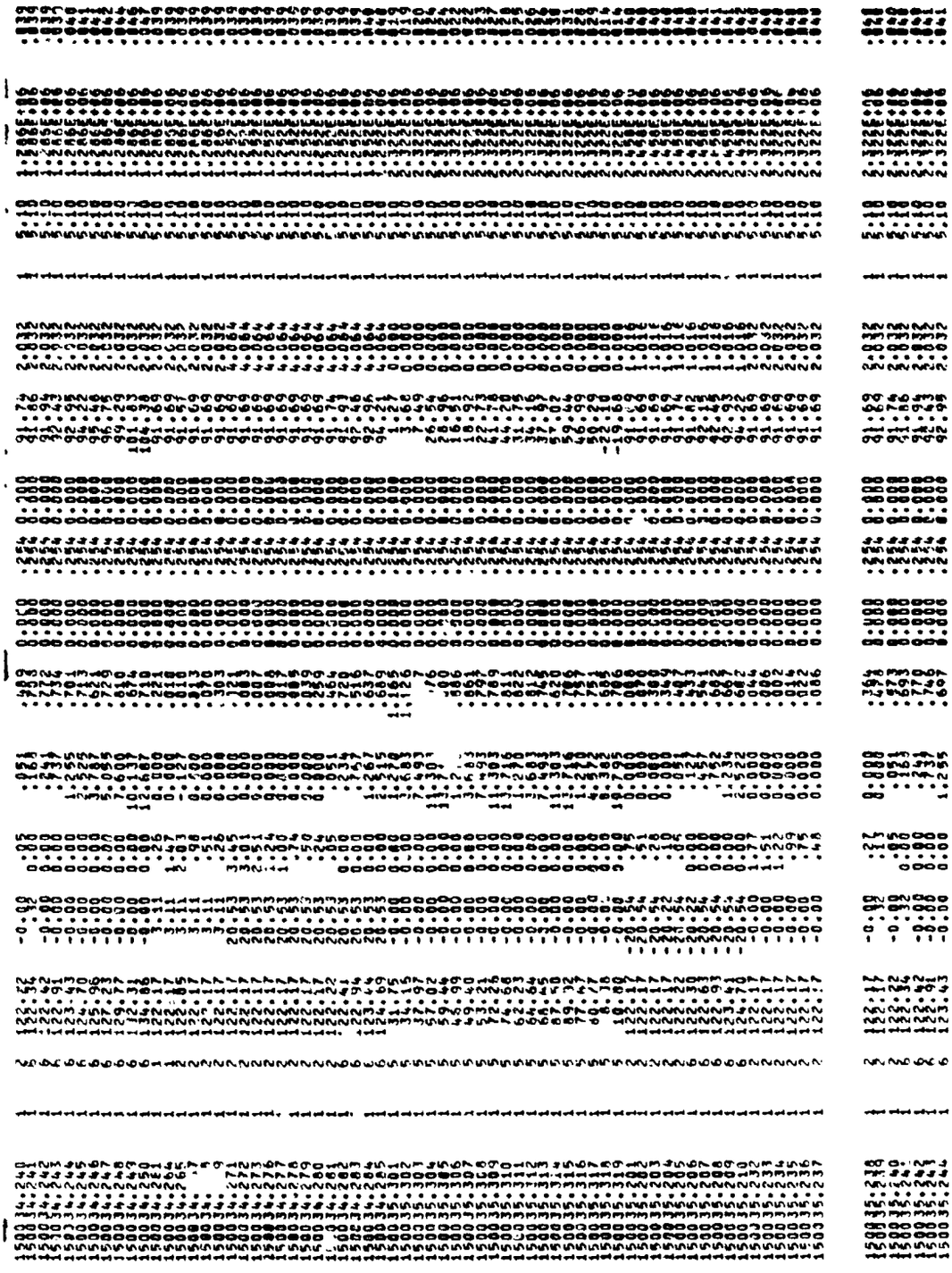


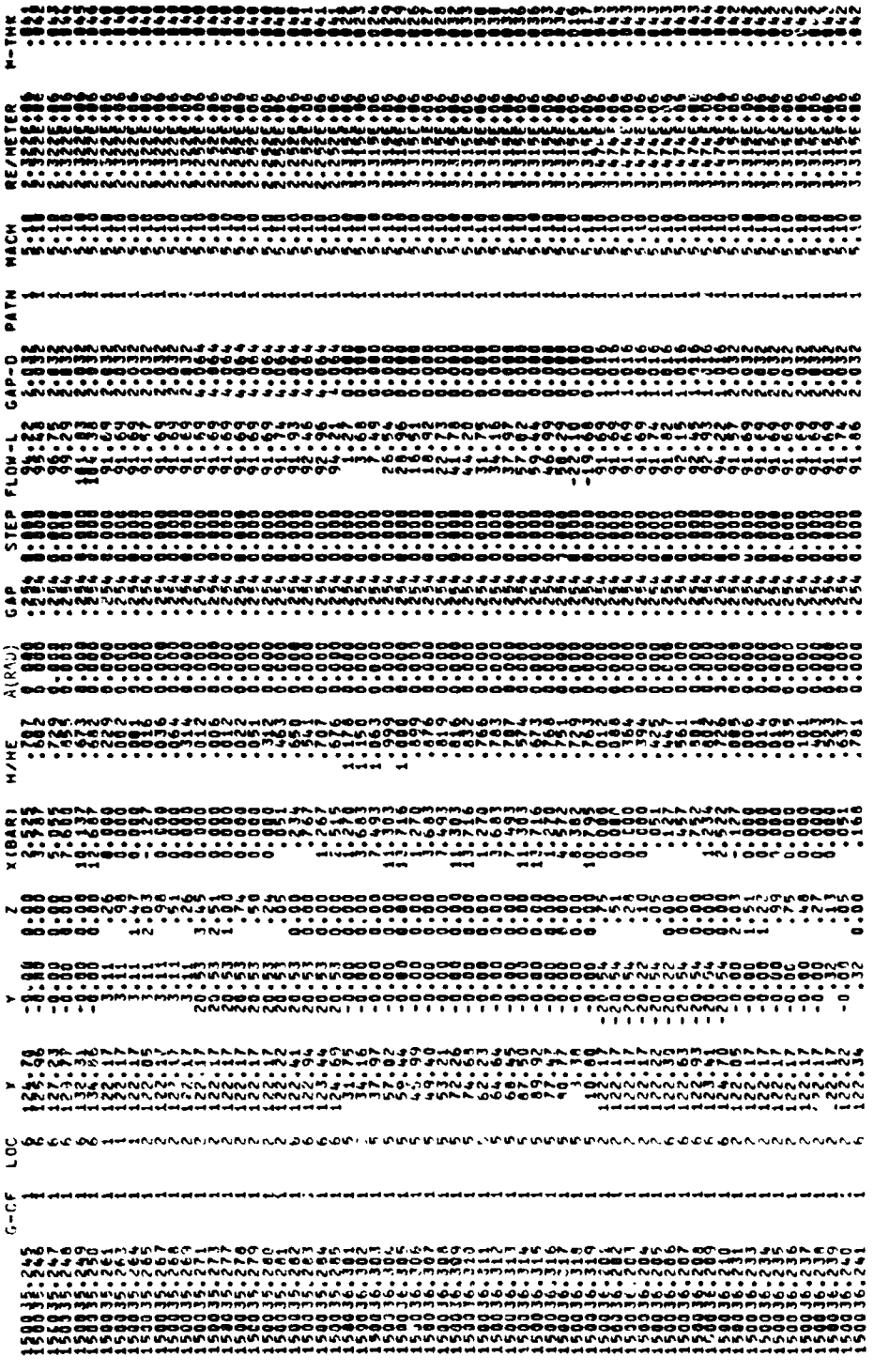


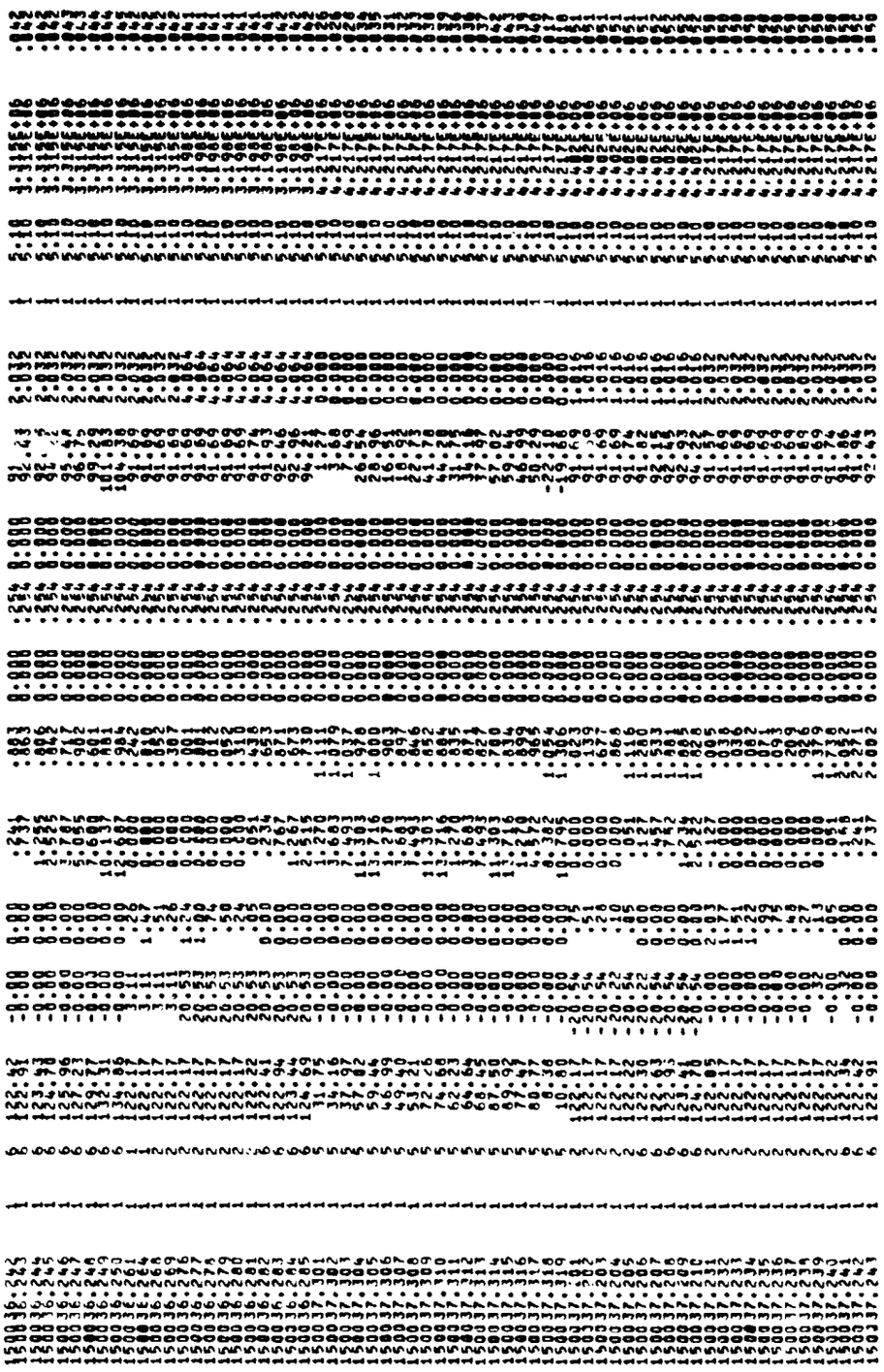

M-THK
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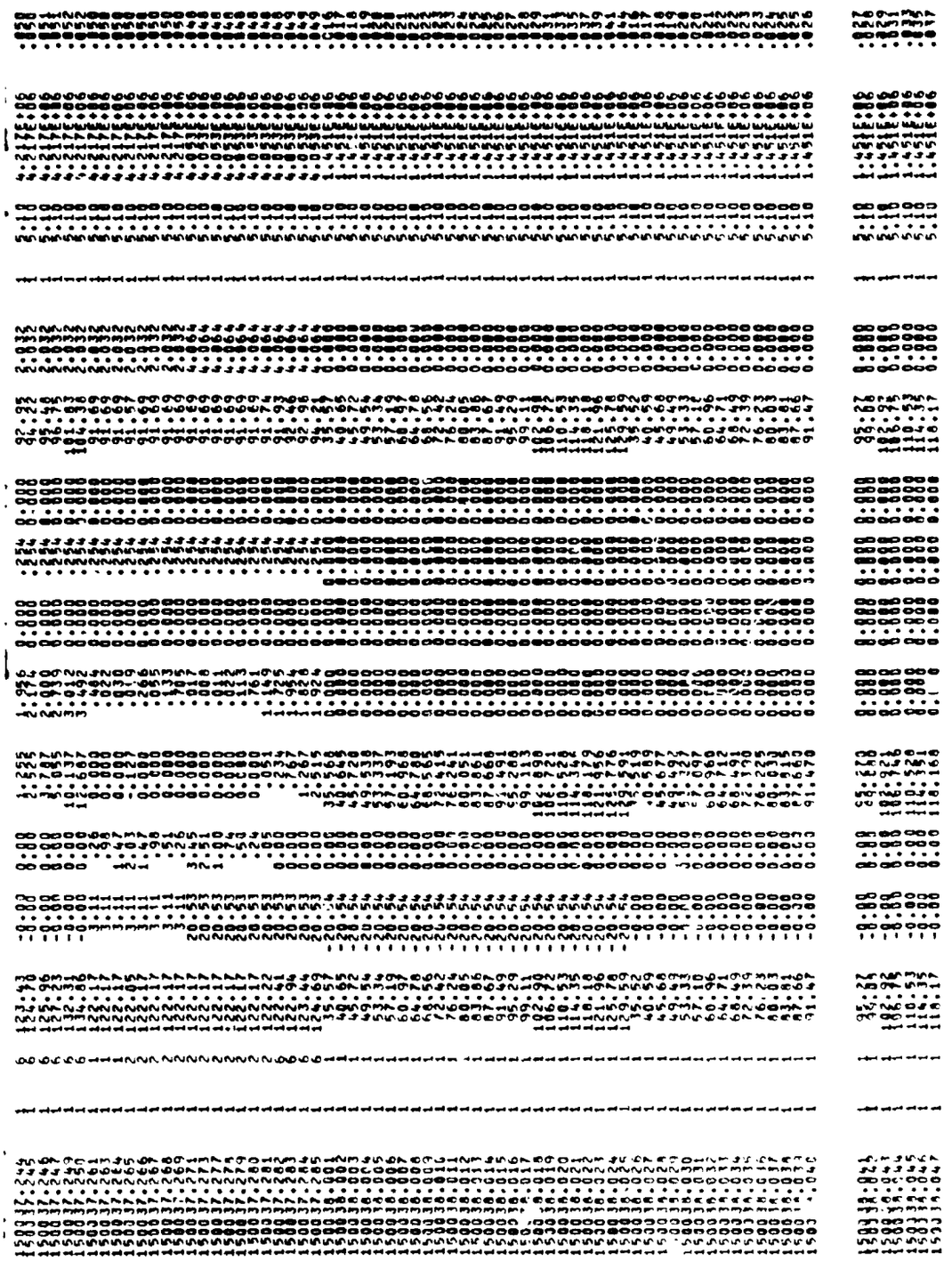


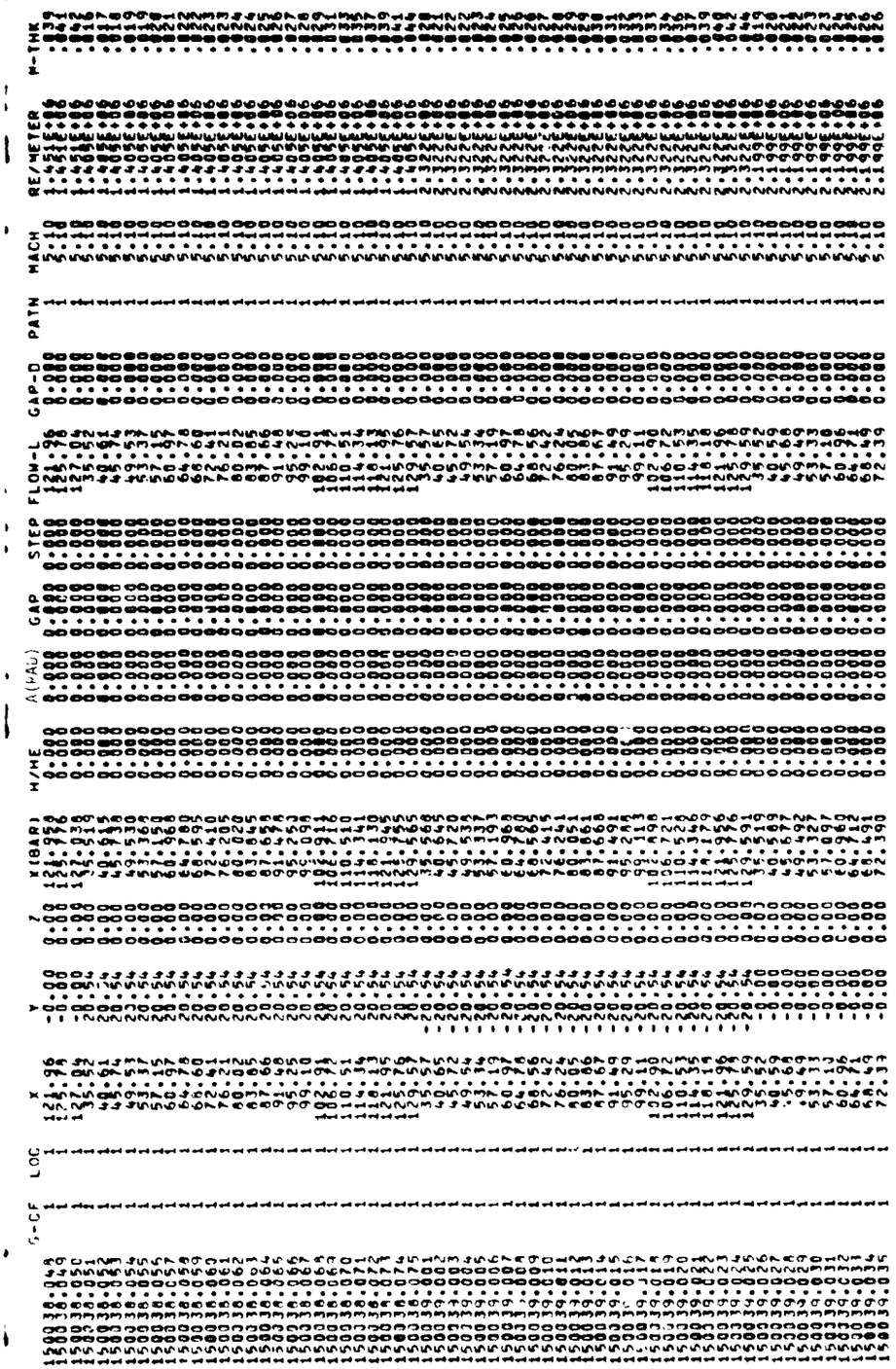
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M-TNK
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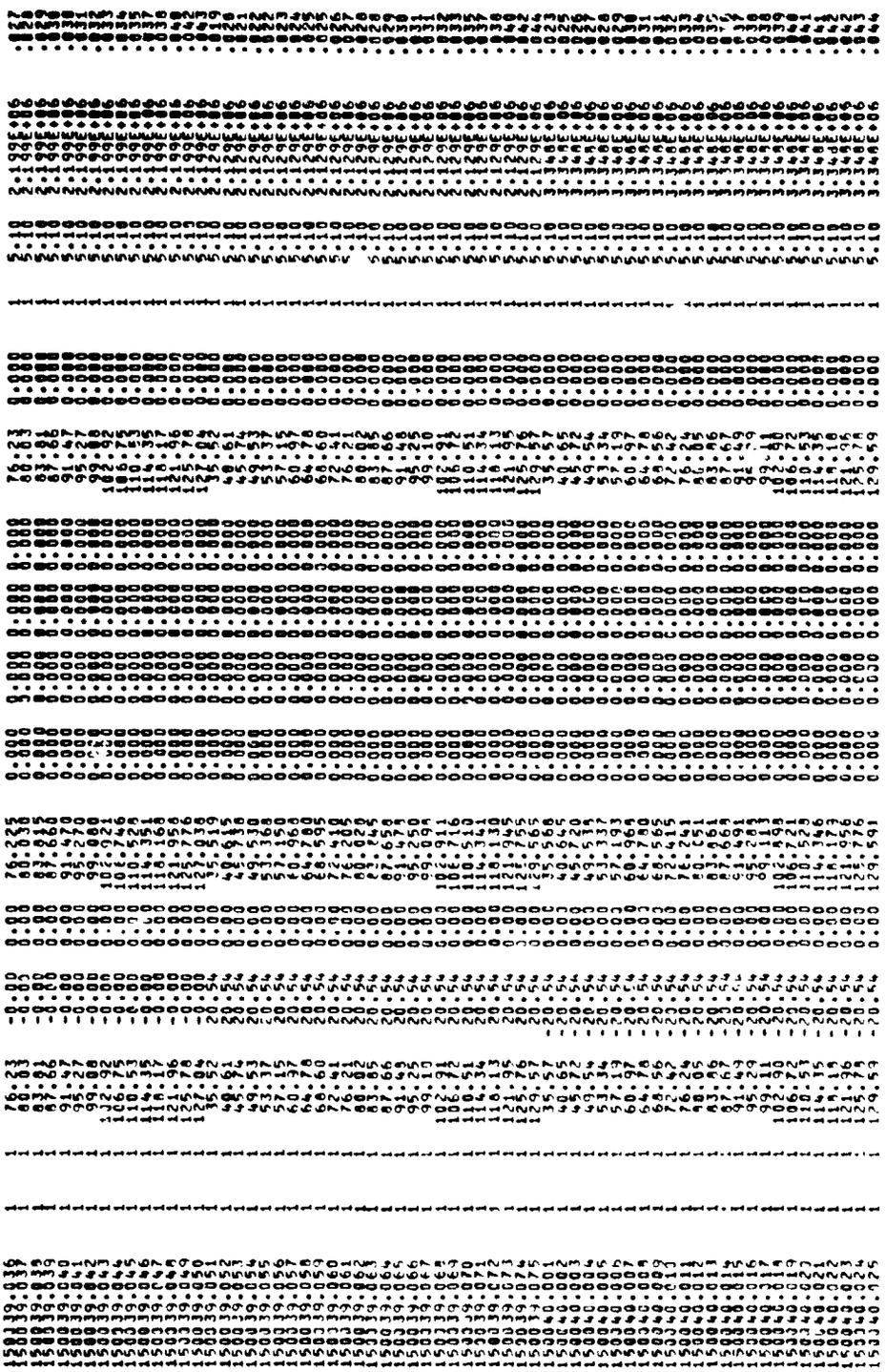



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RSI GAP HEATING ANALYSIS – II

VOLUME II

REPORT MDC E1248
JSC 09651

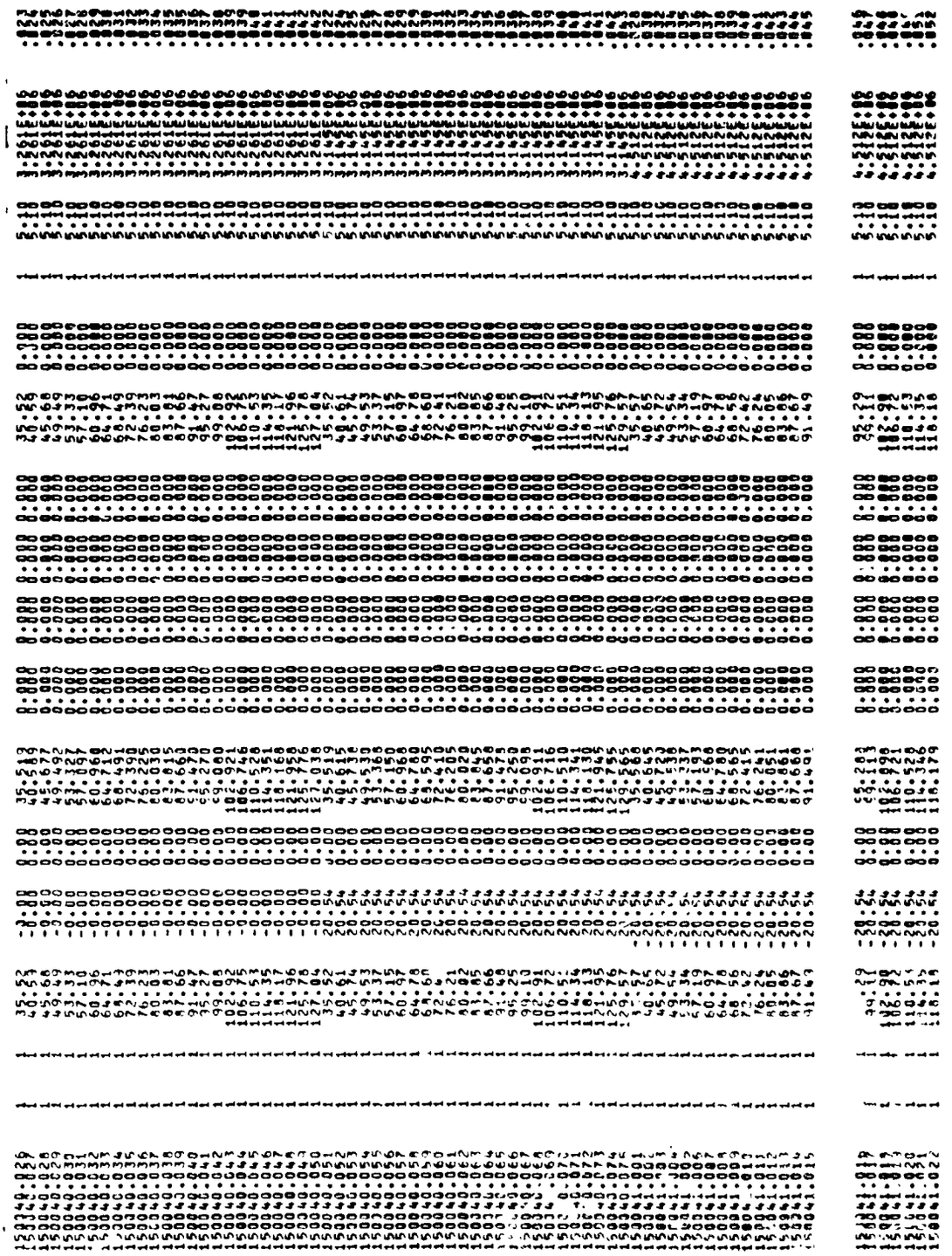


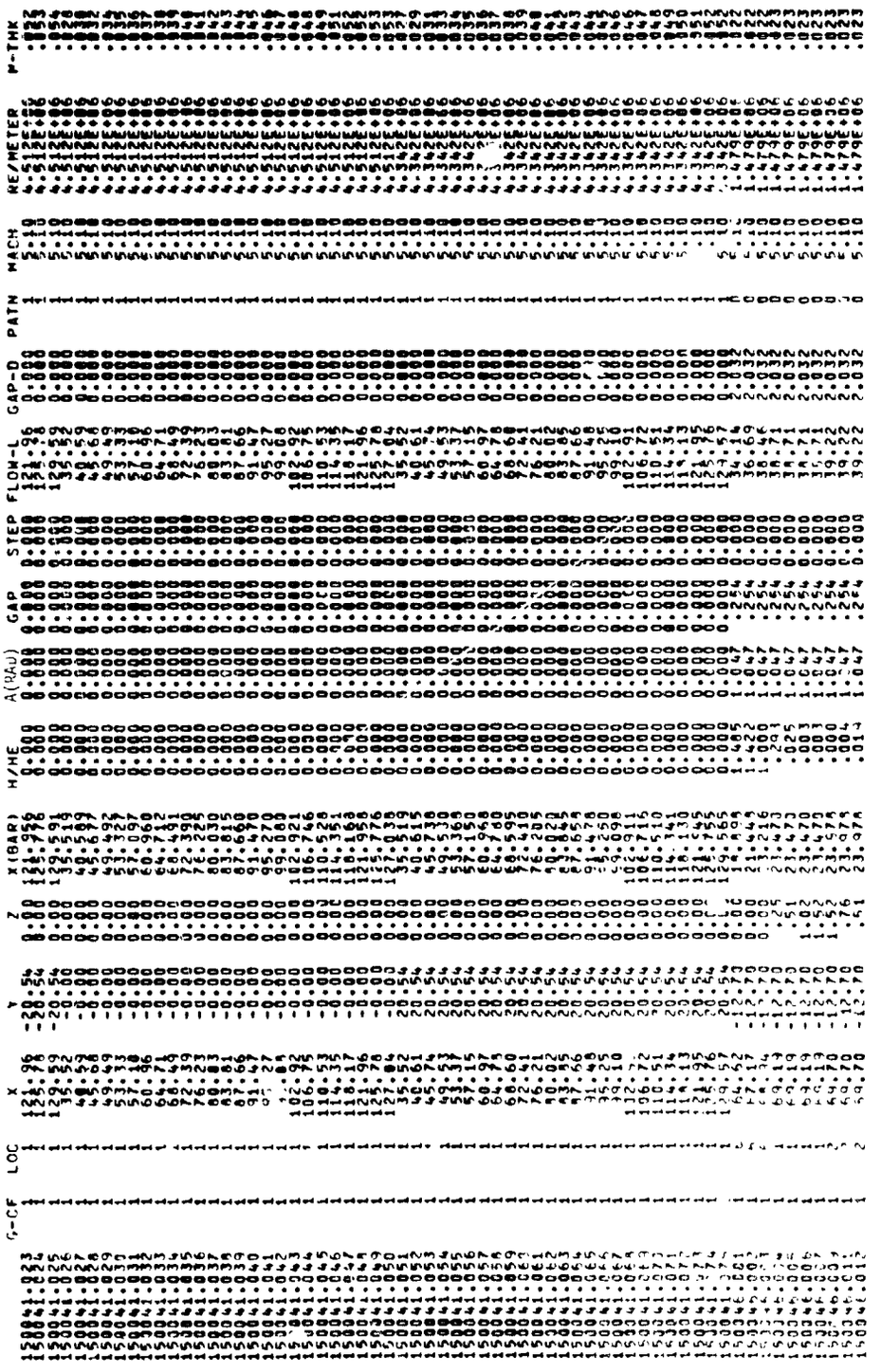
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RSI GAP HEATING ANALYSIS – II

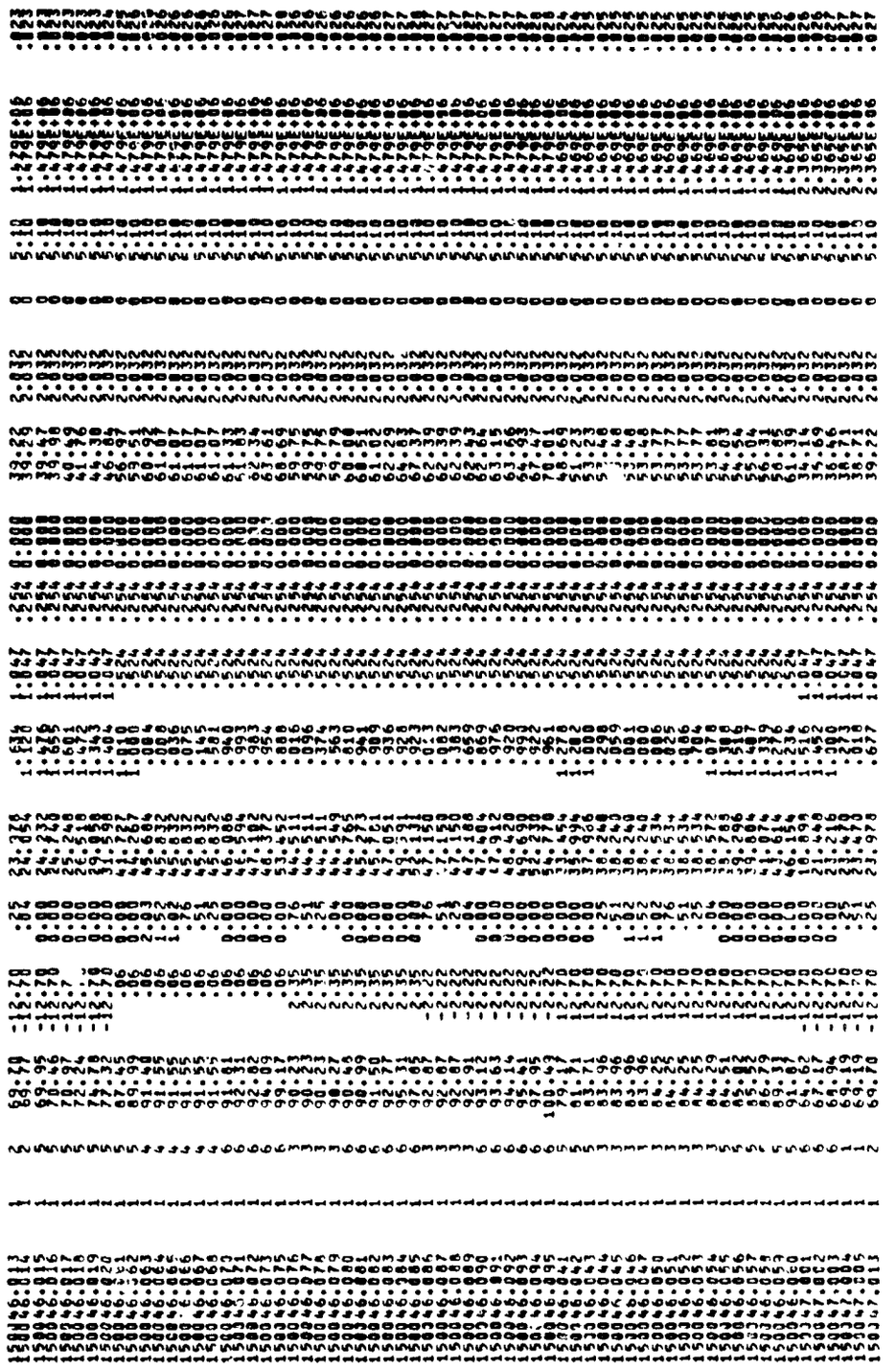
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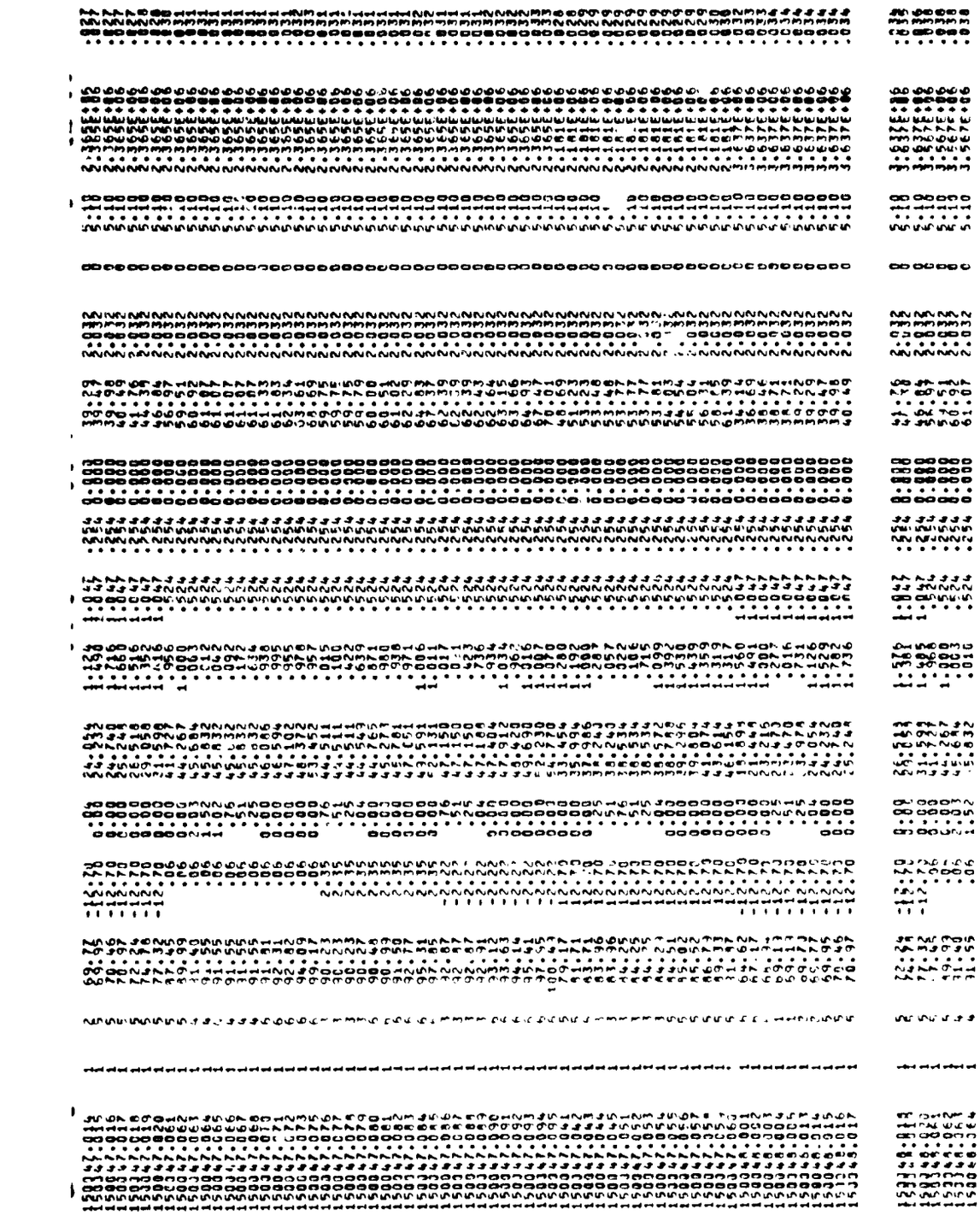
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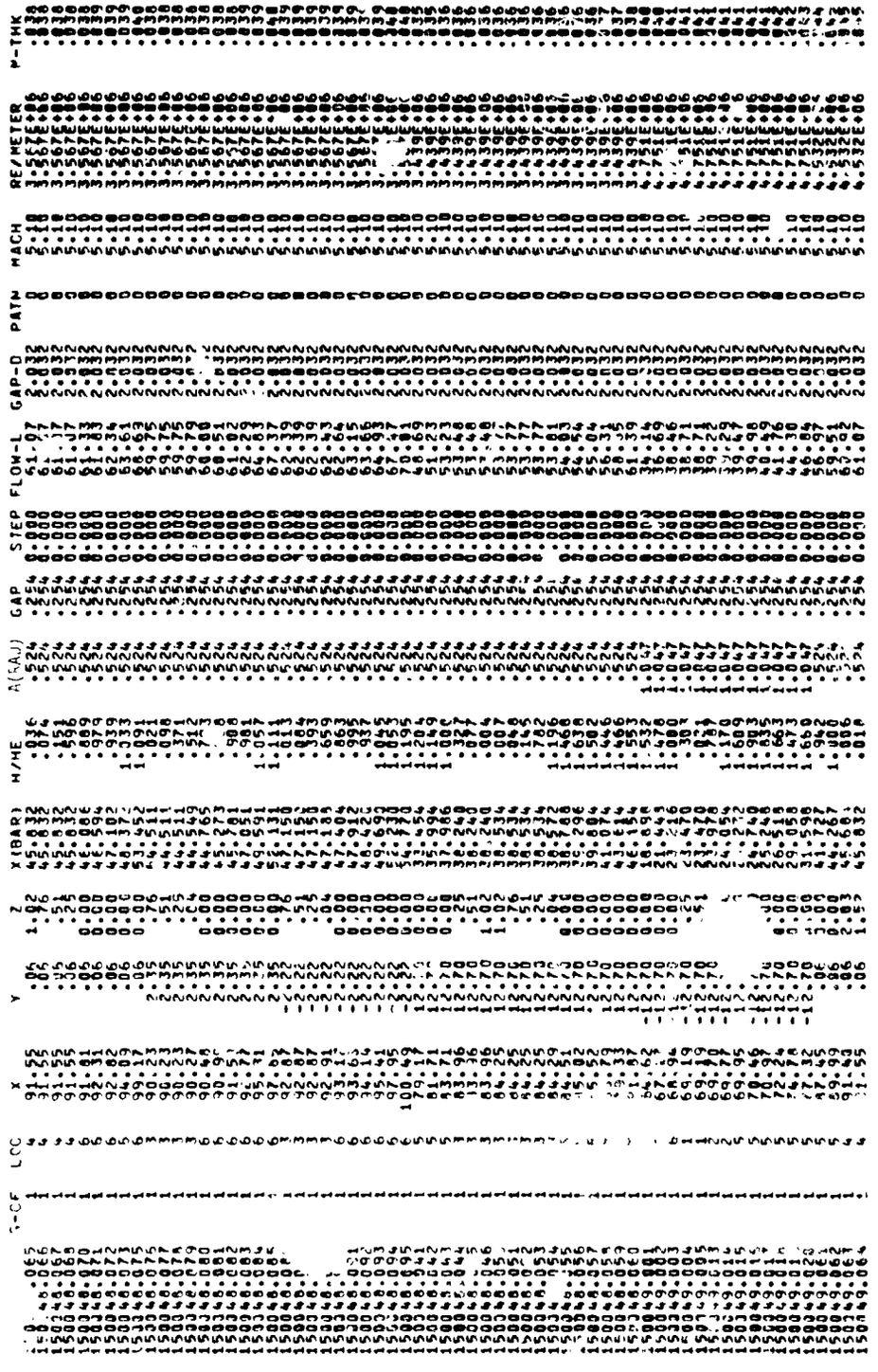


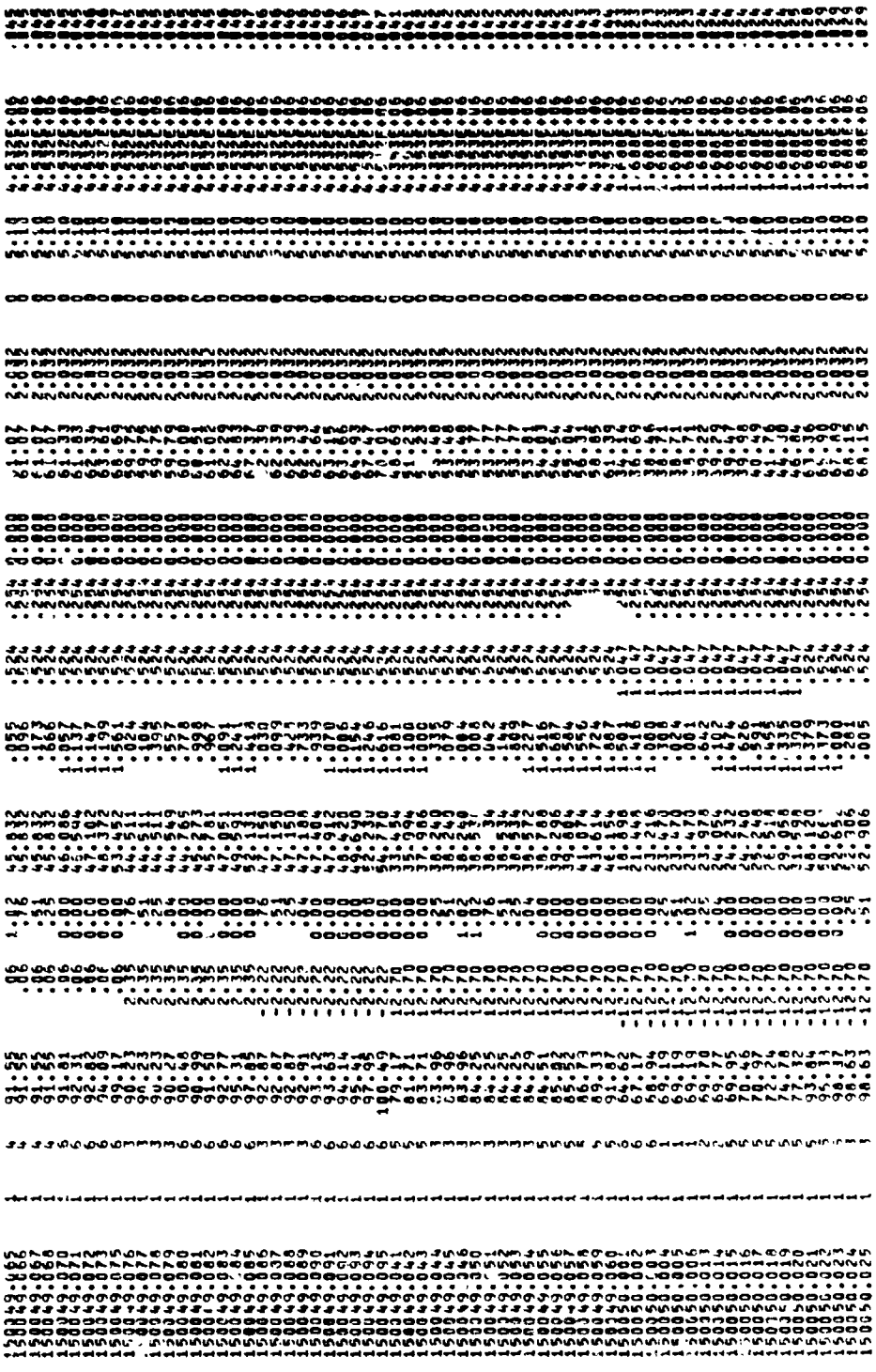


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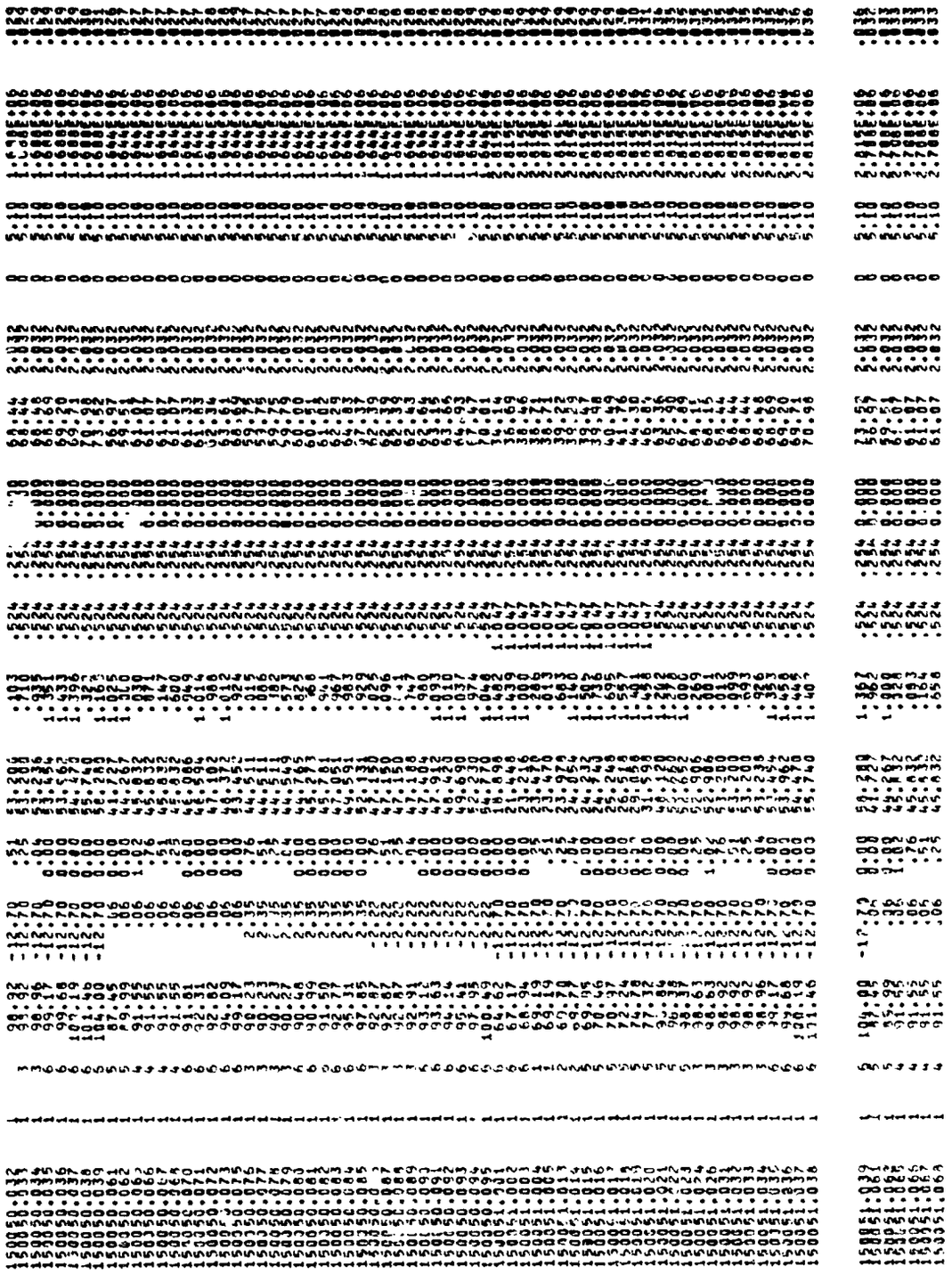


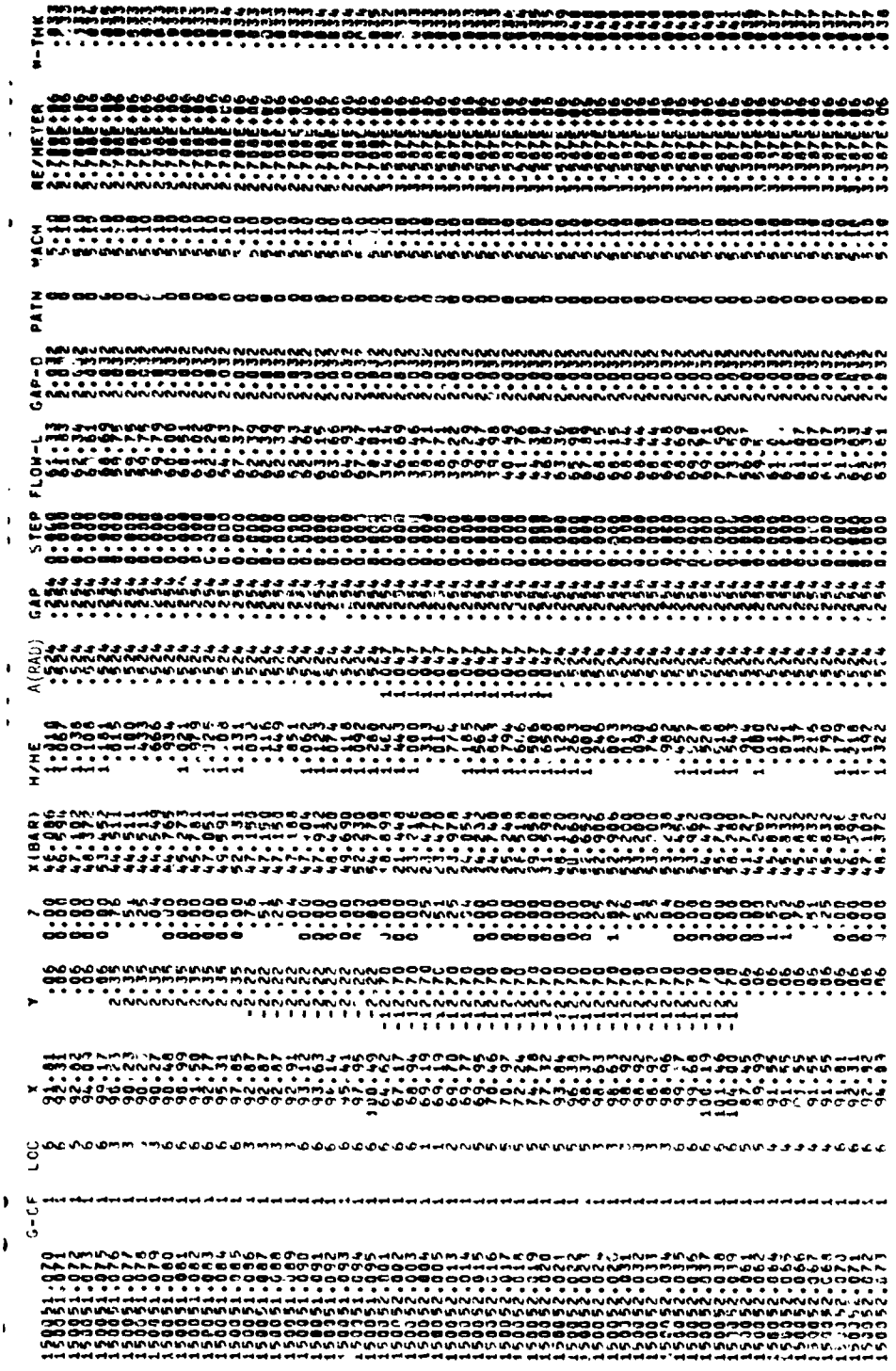


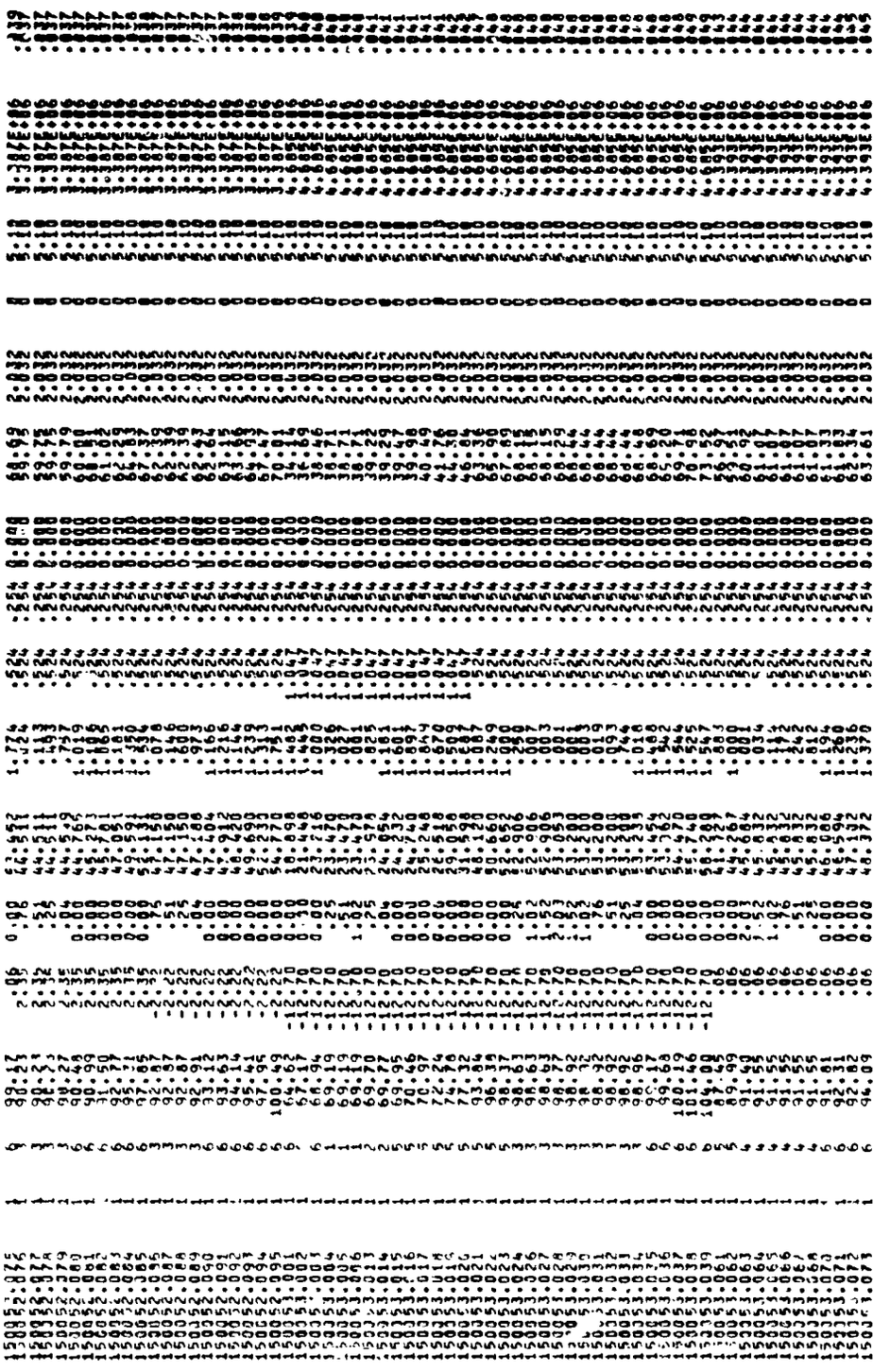

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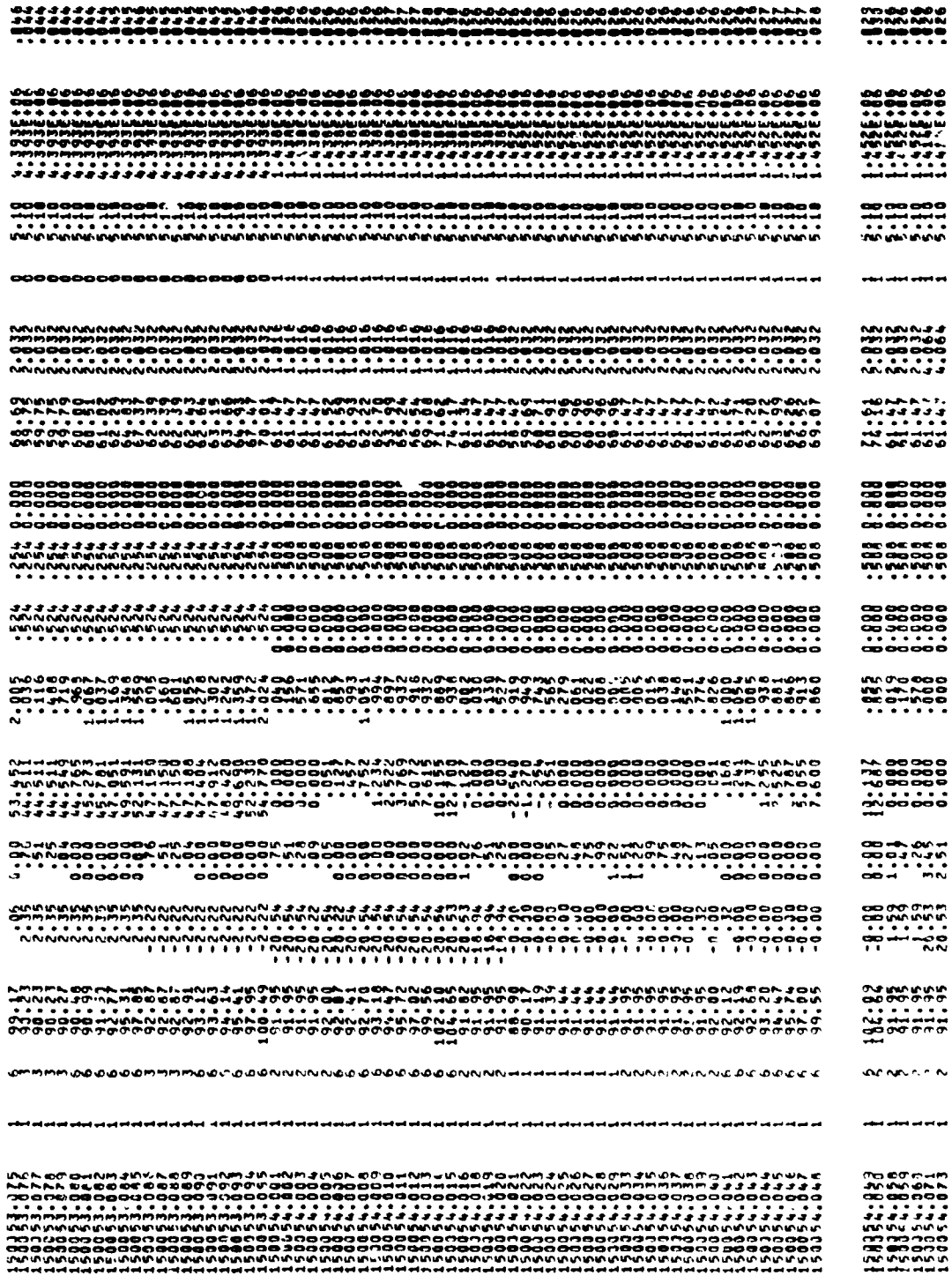


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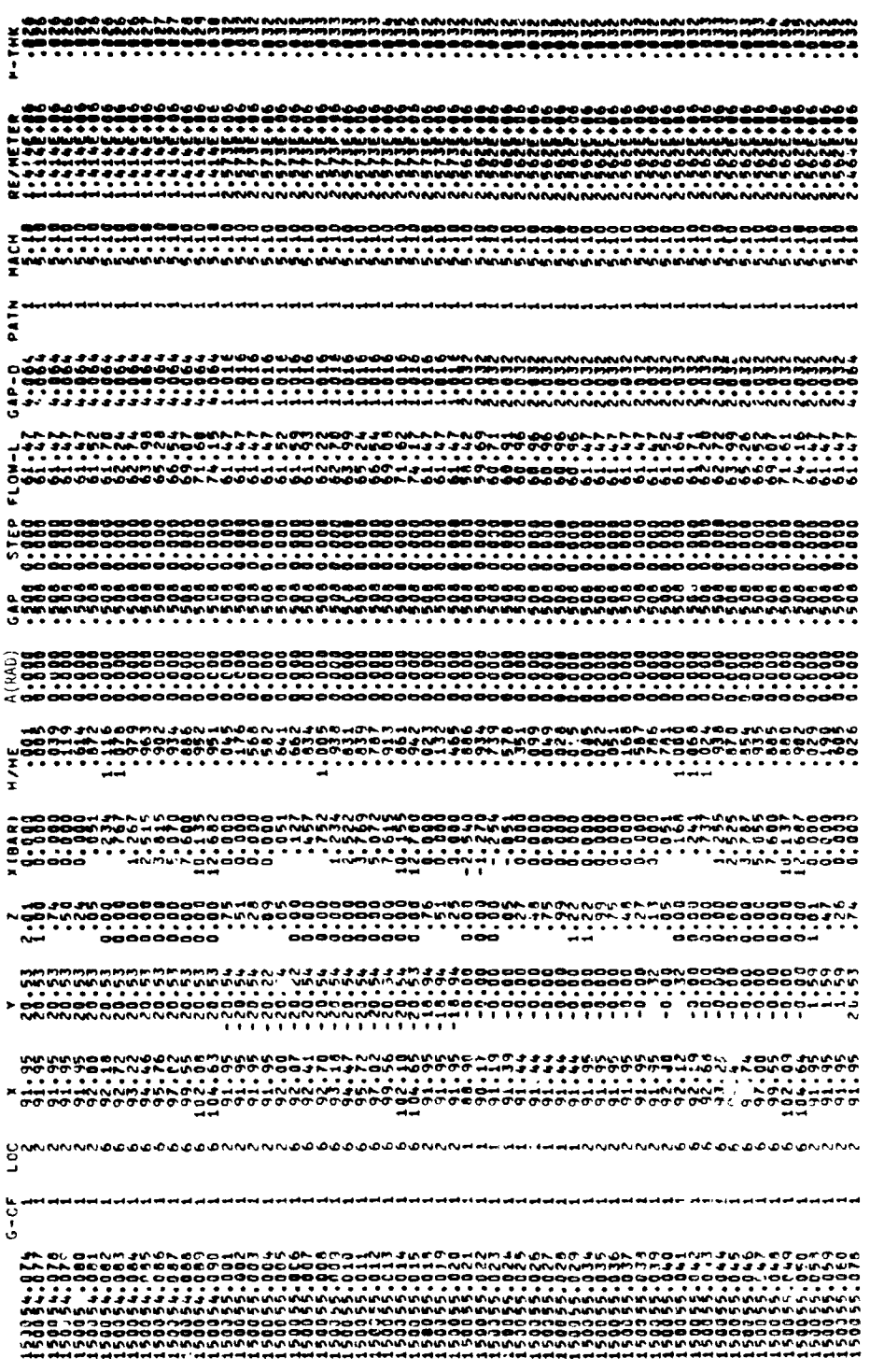



W-THK
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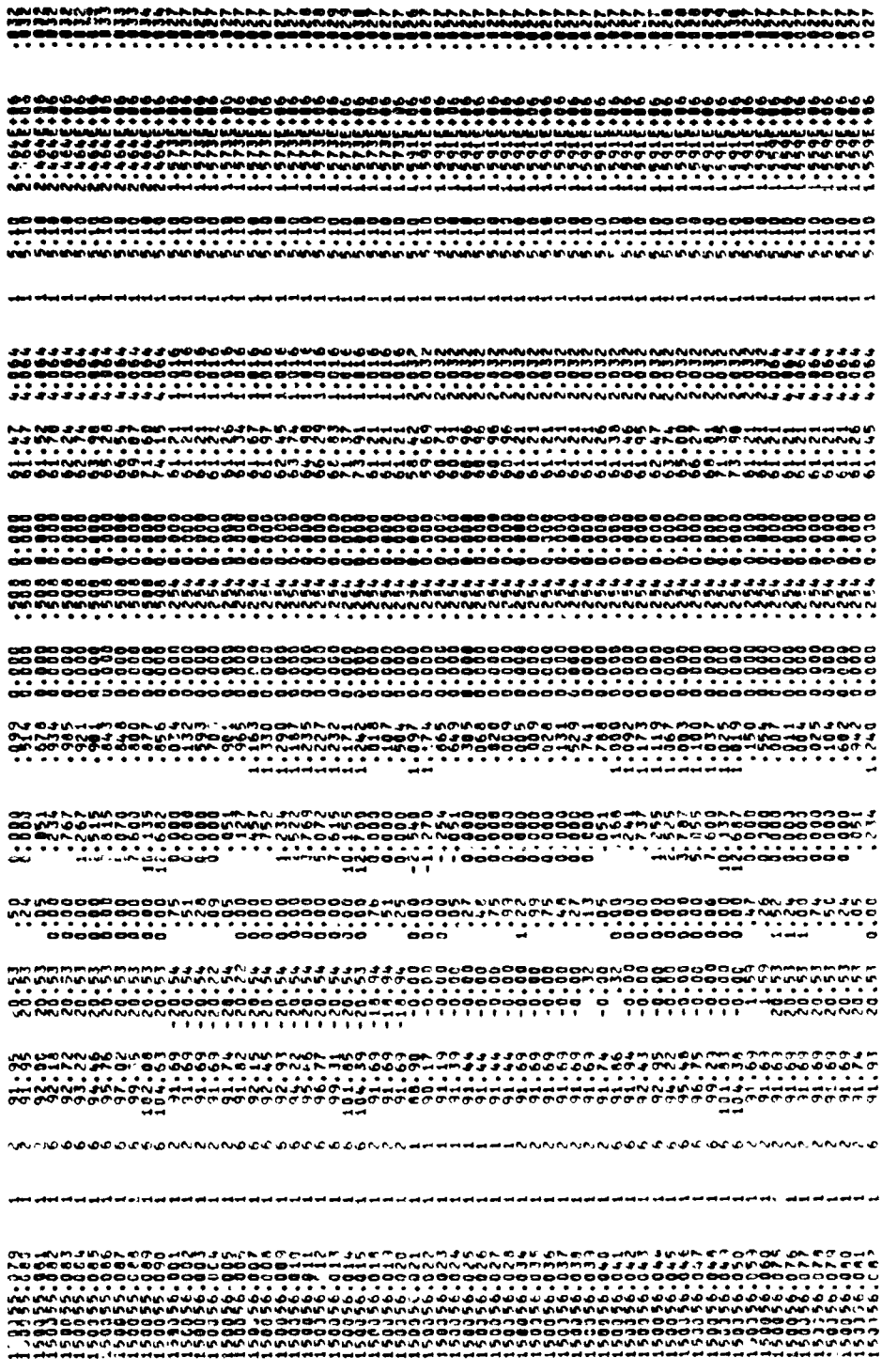
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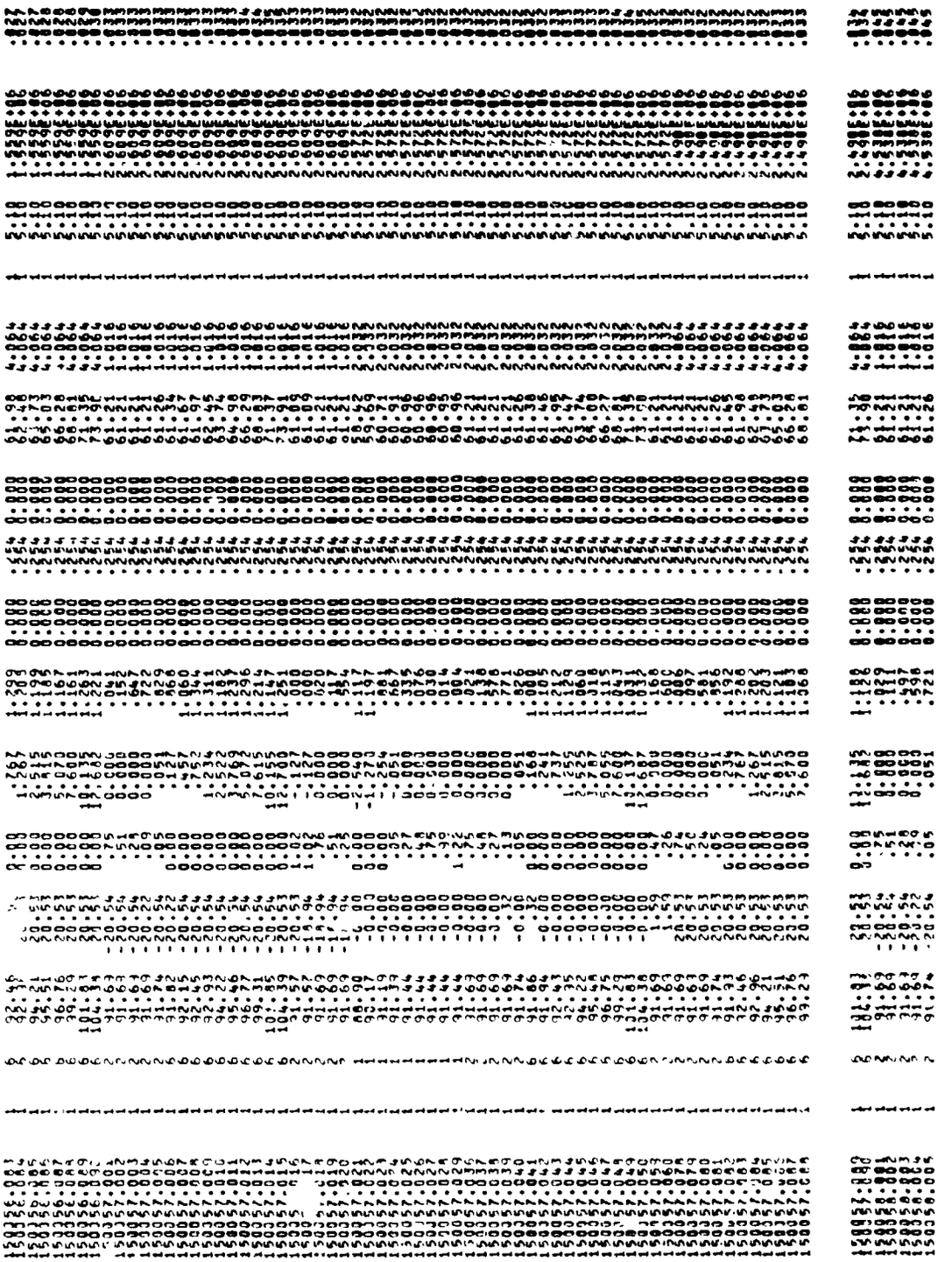

M-THK
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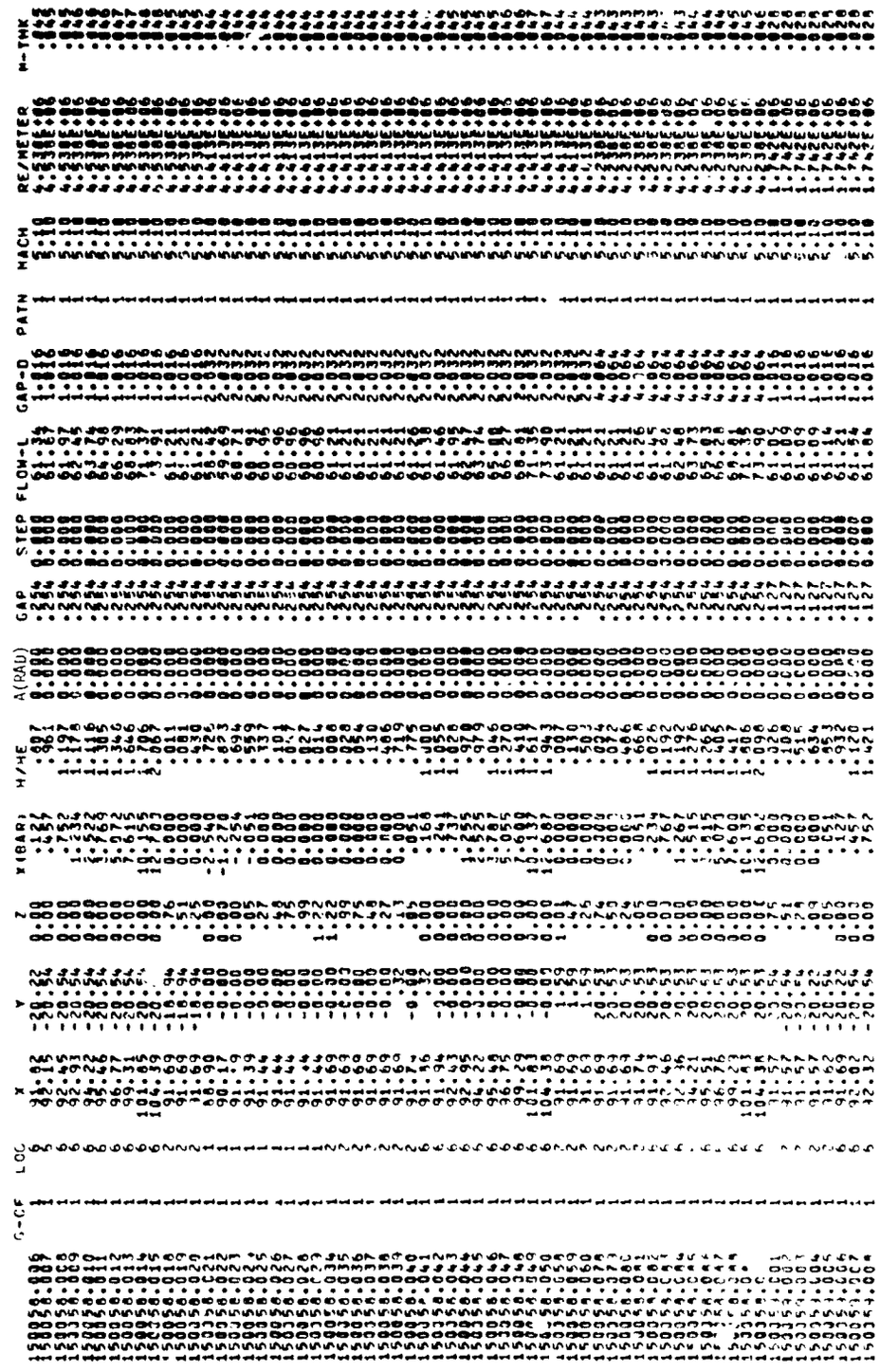
RSI GAP HEATING ANALYSIS – II

VOLUME II

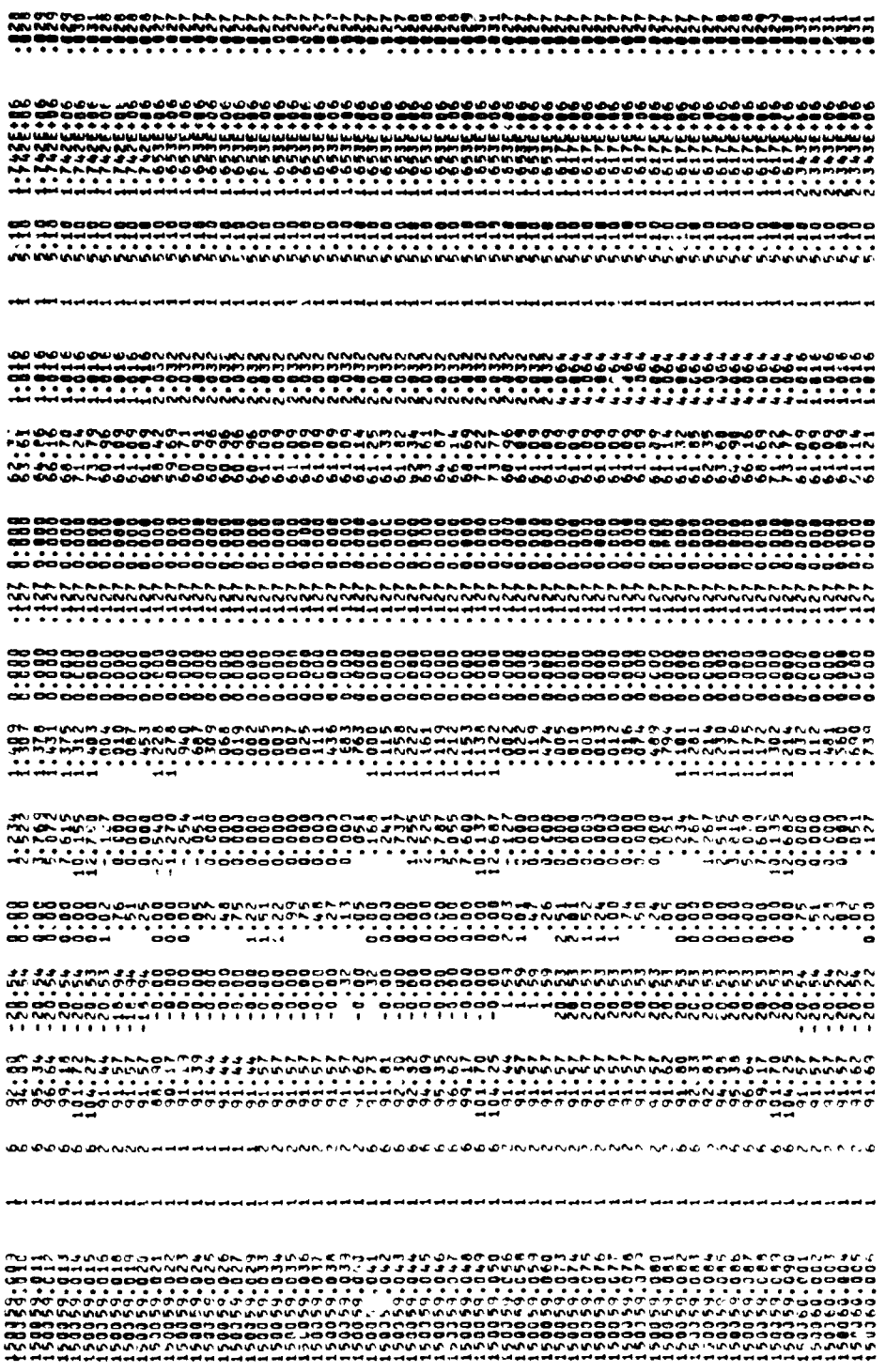
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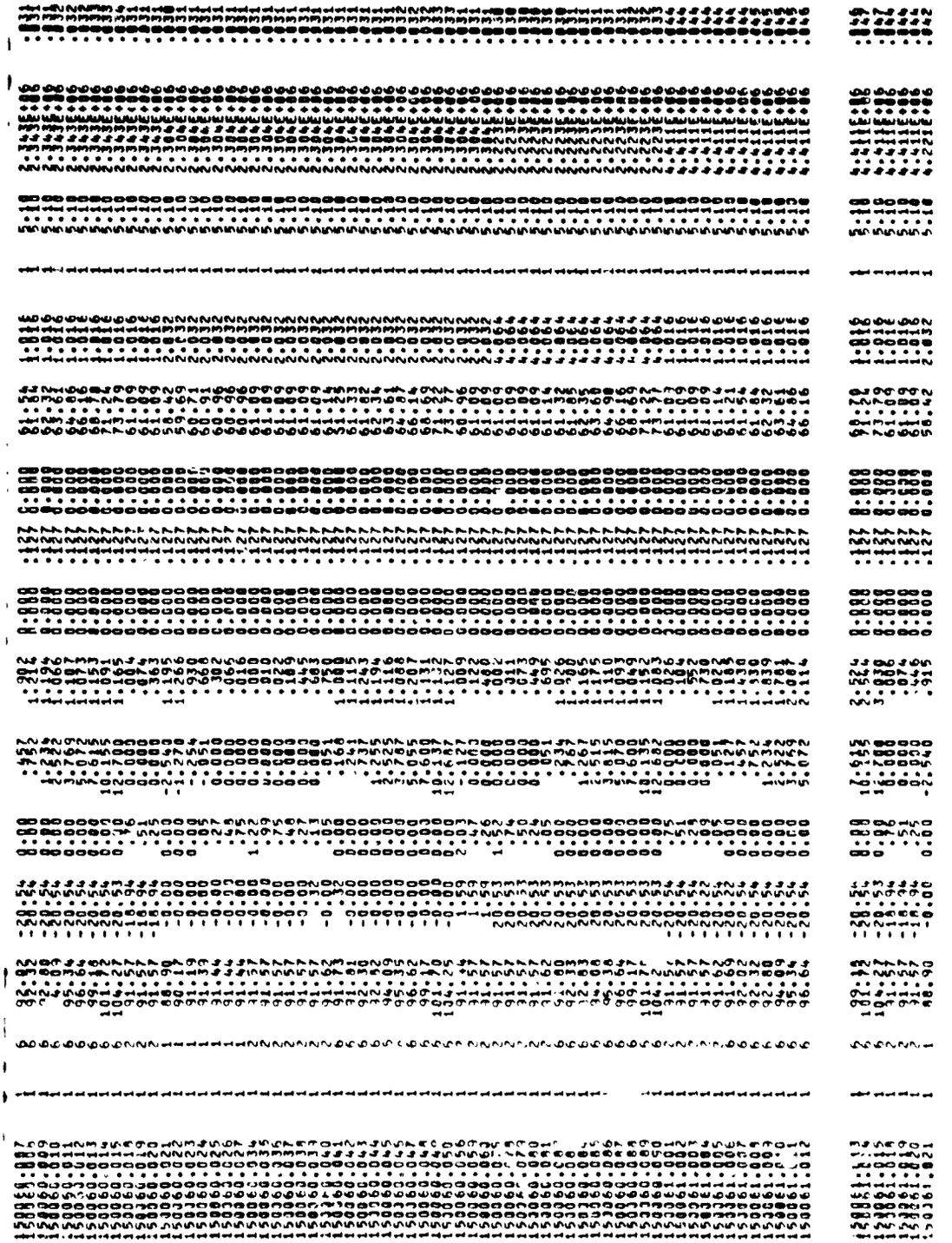


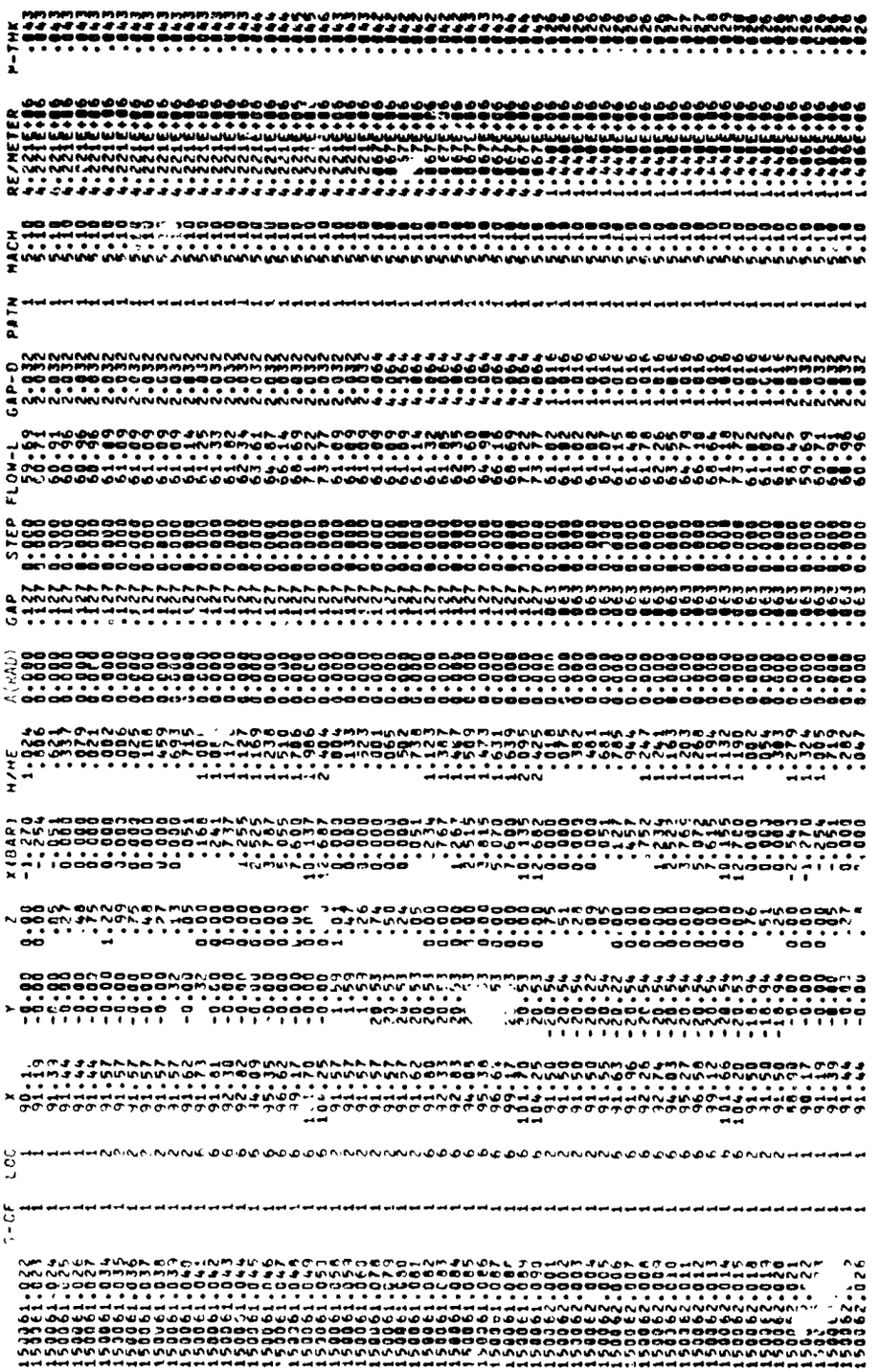




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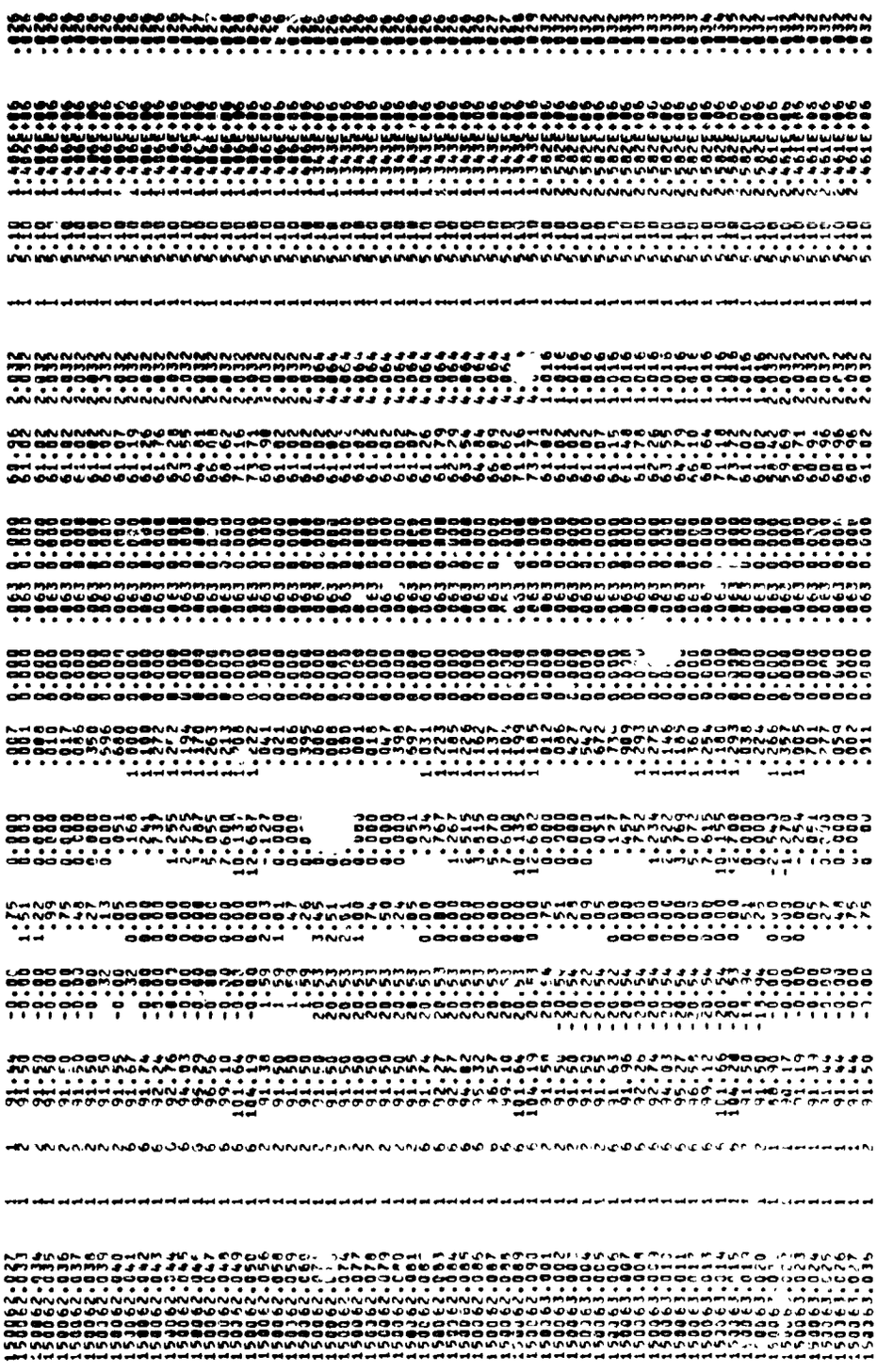



P-THK
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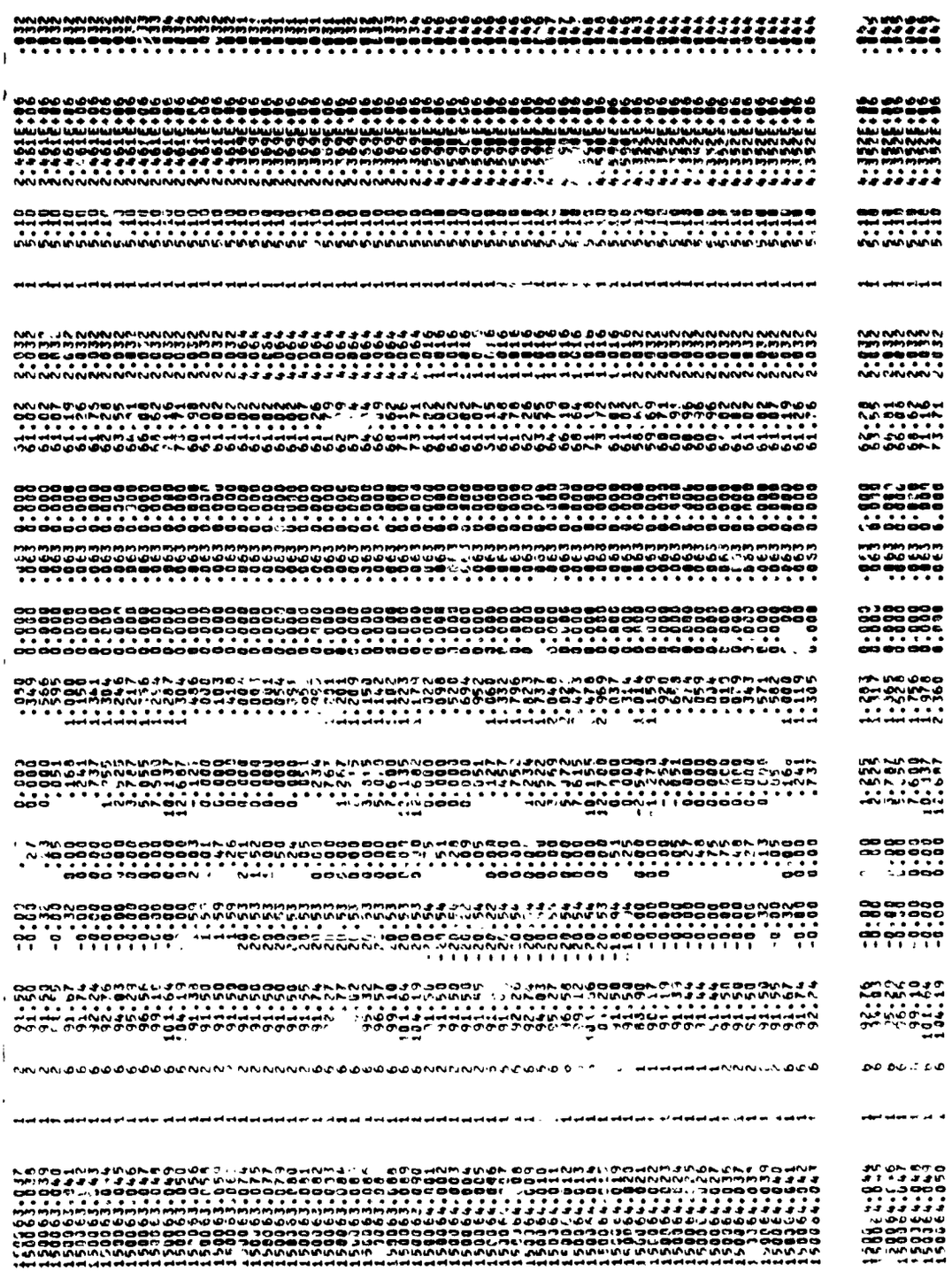
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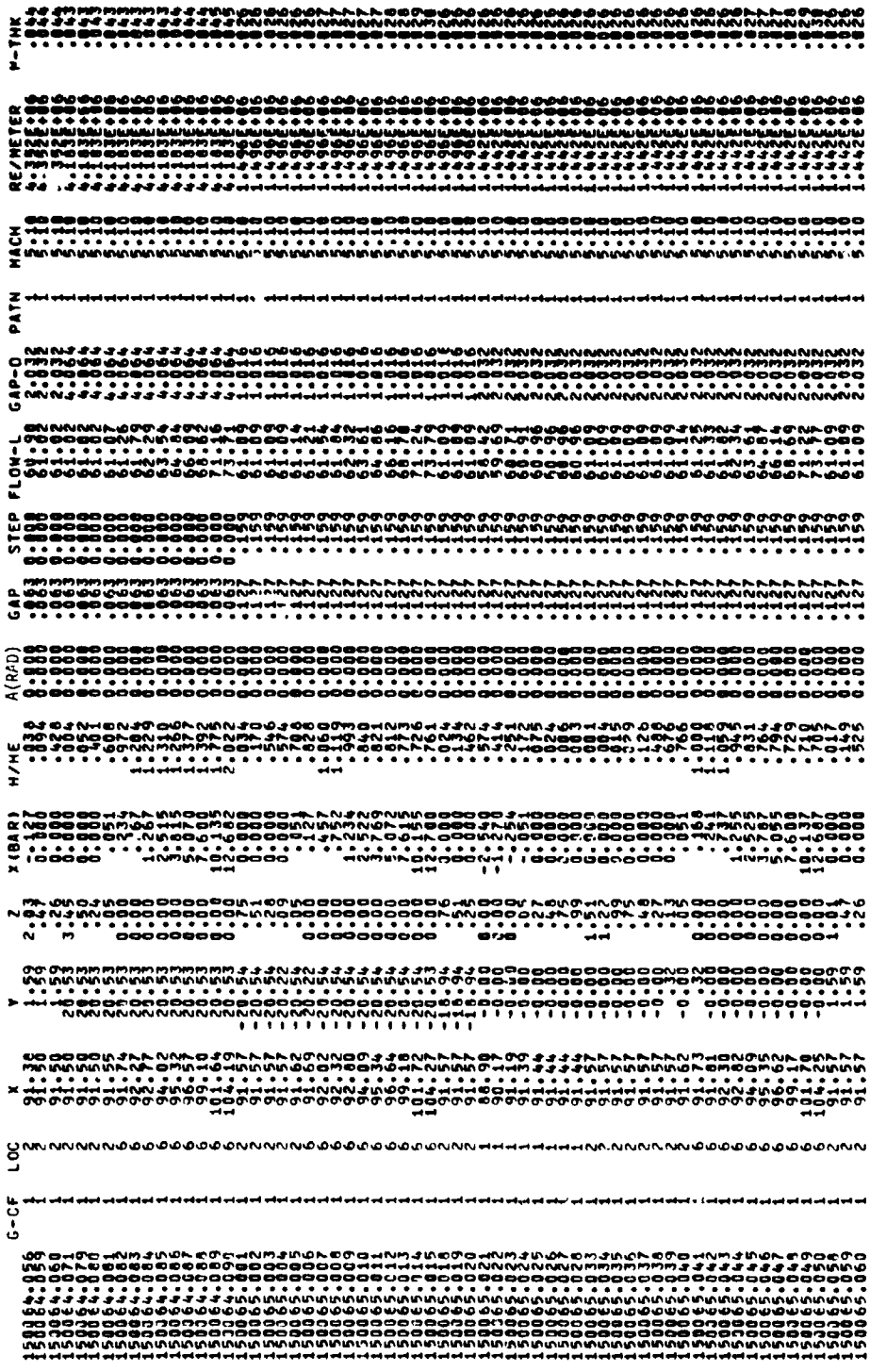
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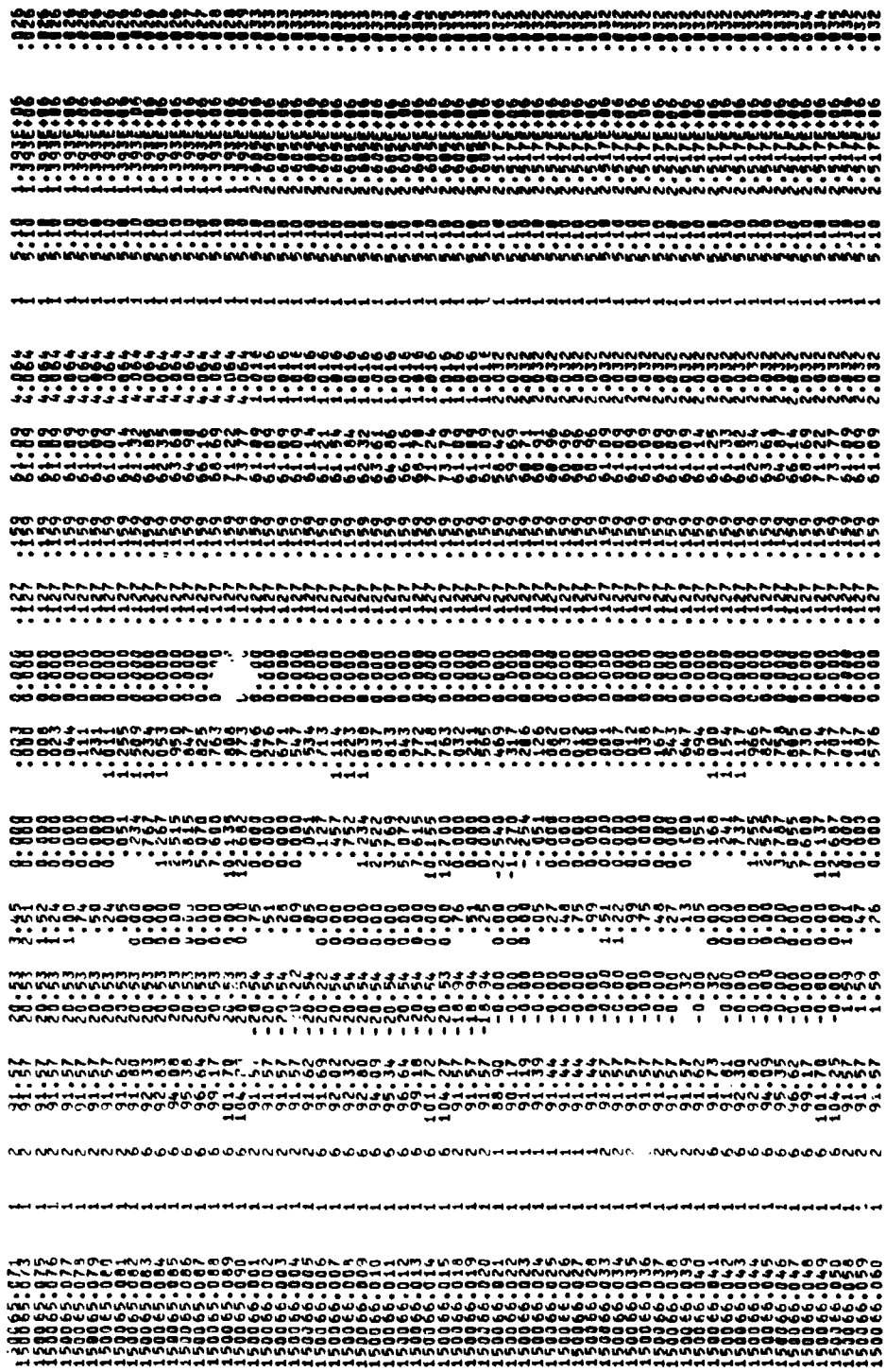
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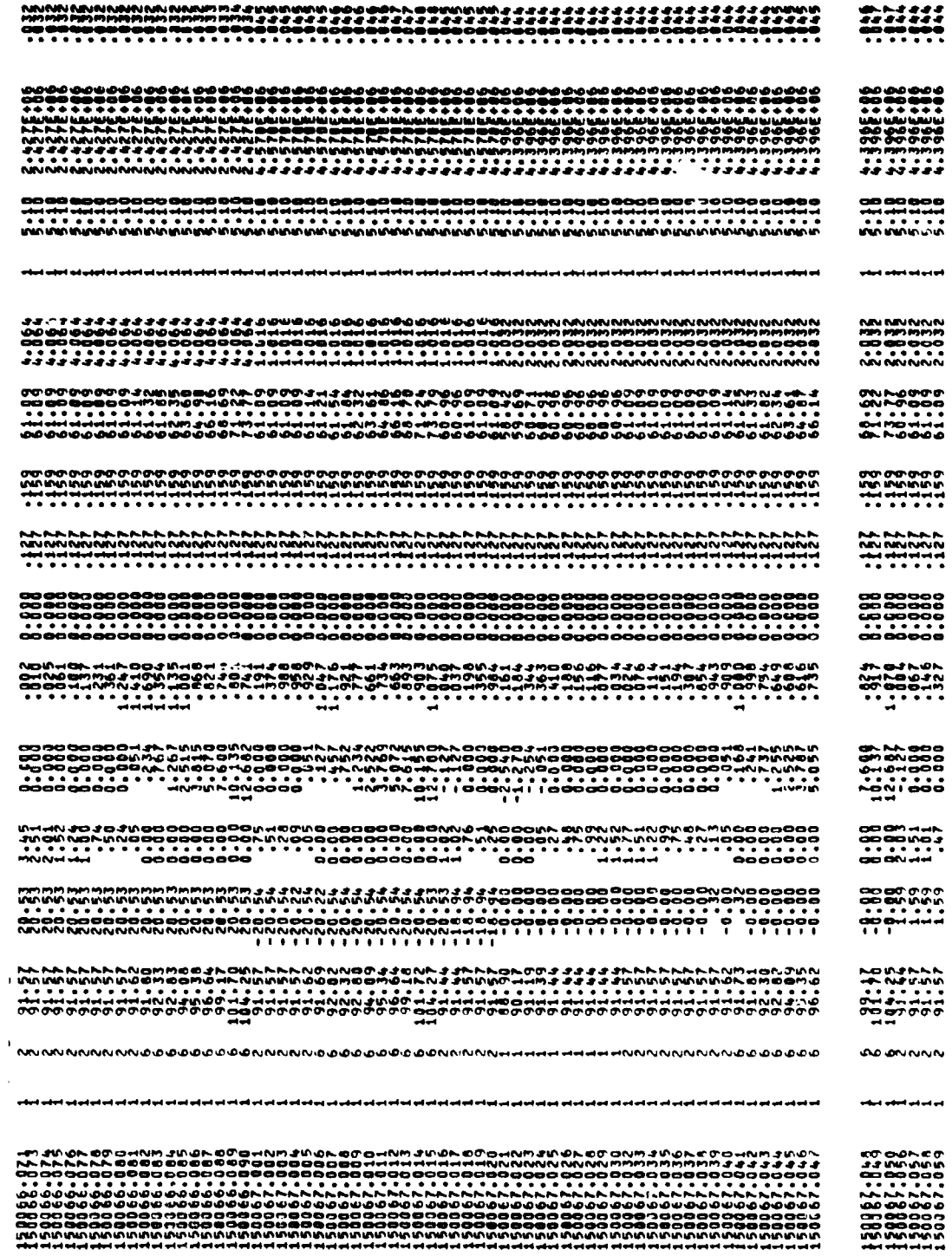


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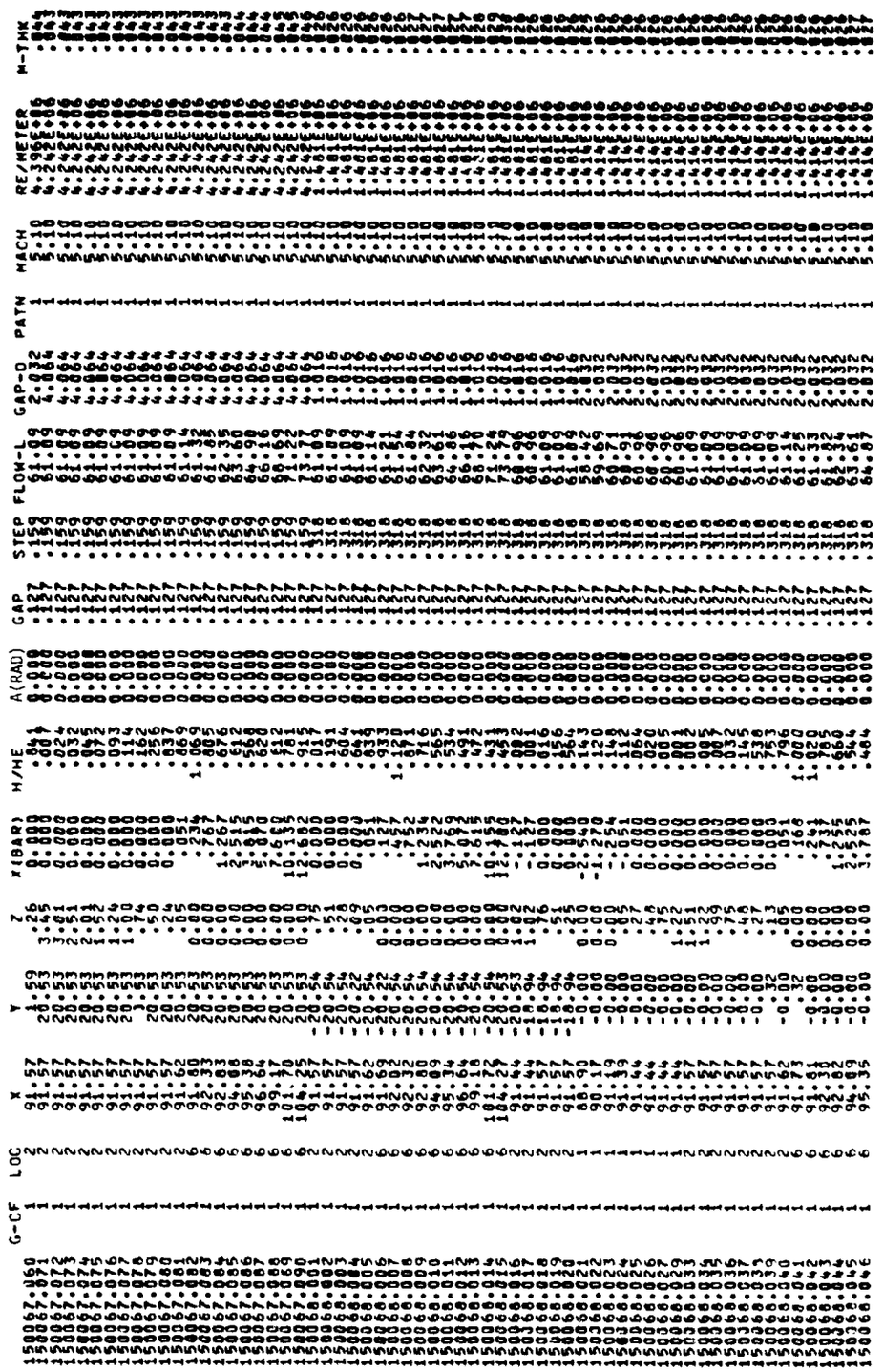


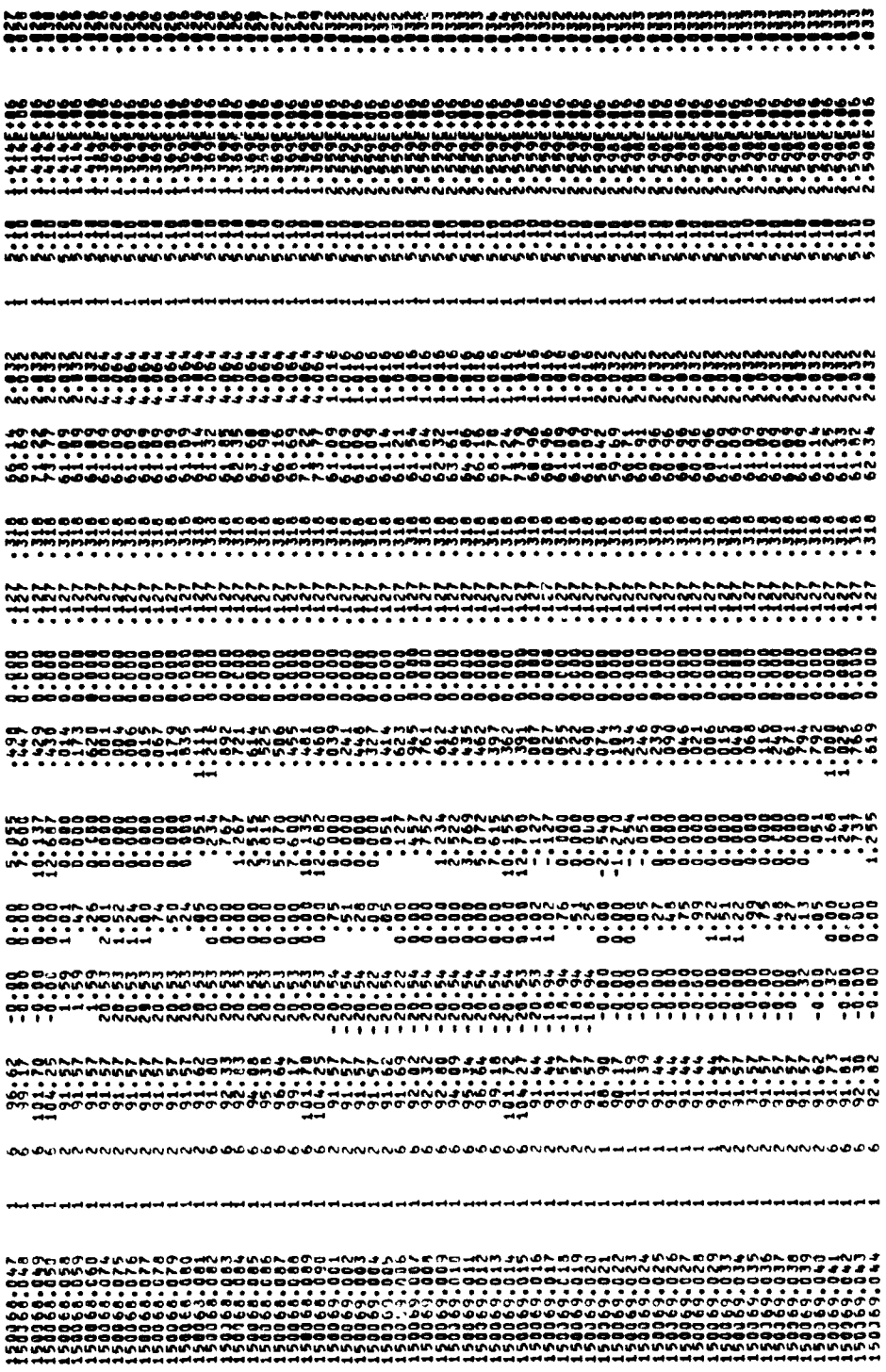

G-CF
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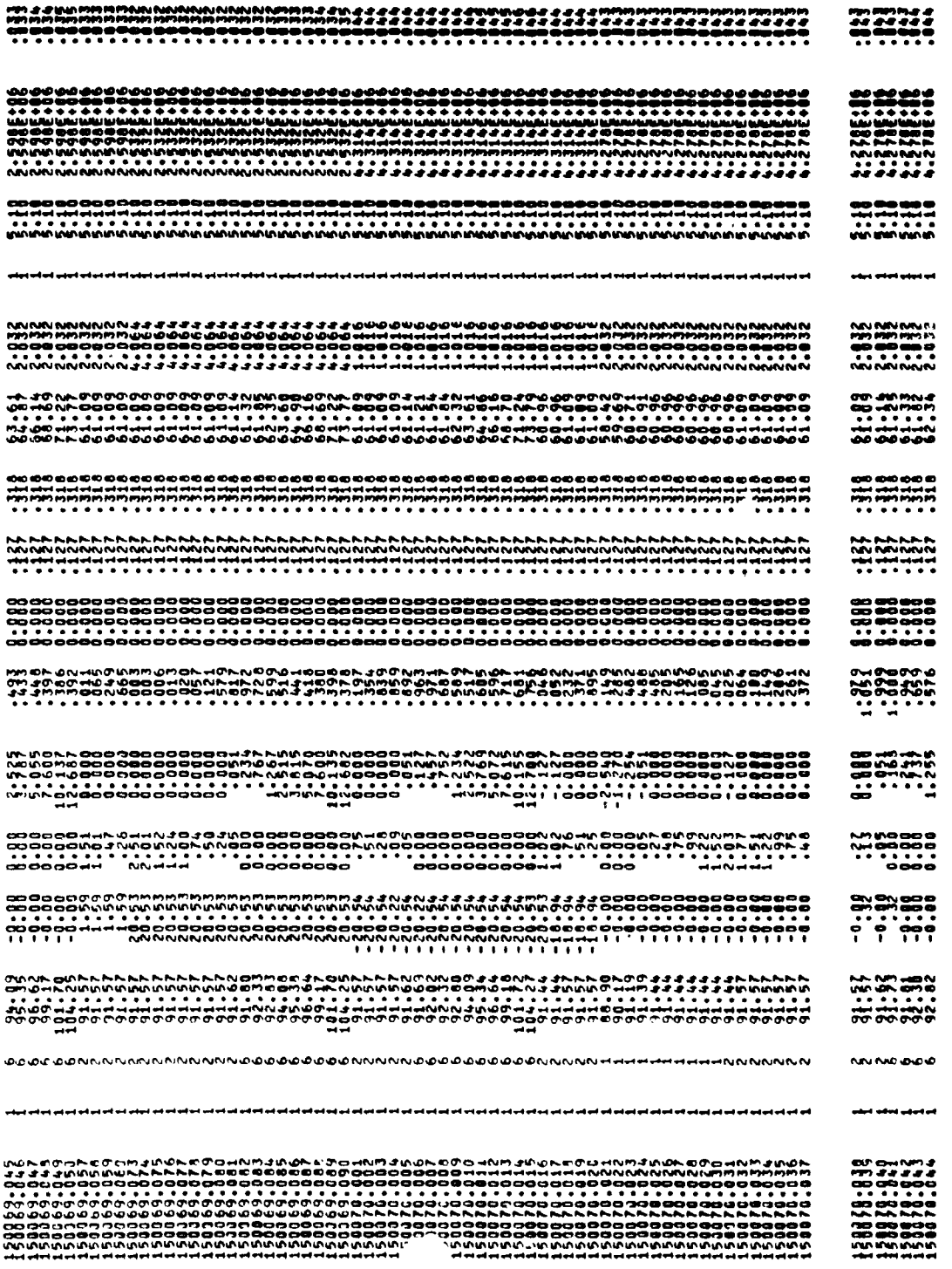


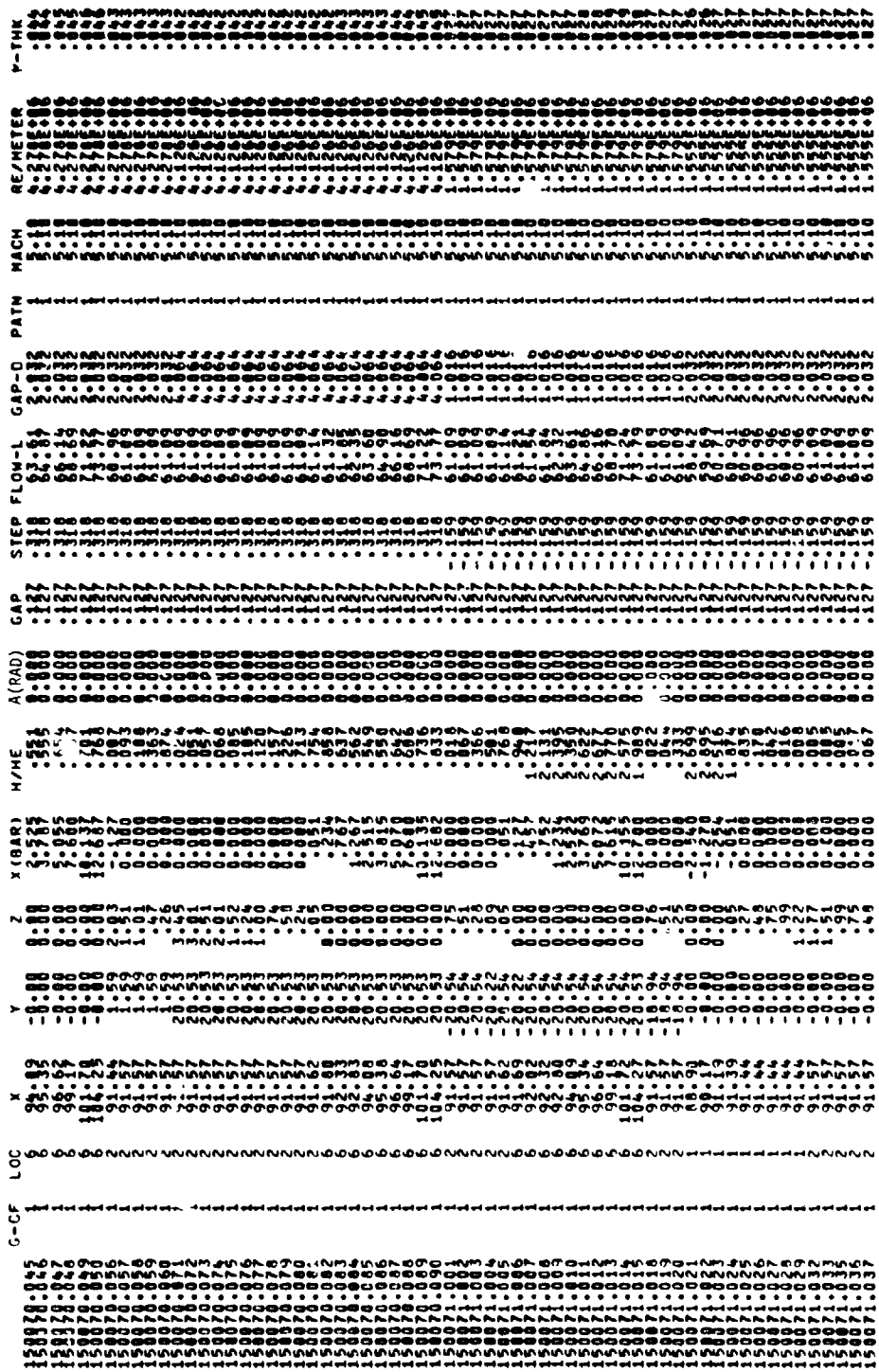


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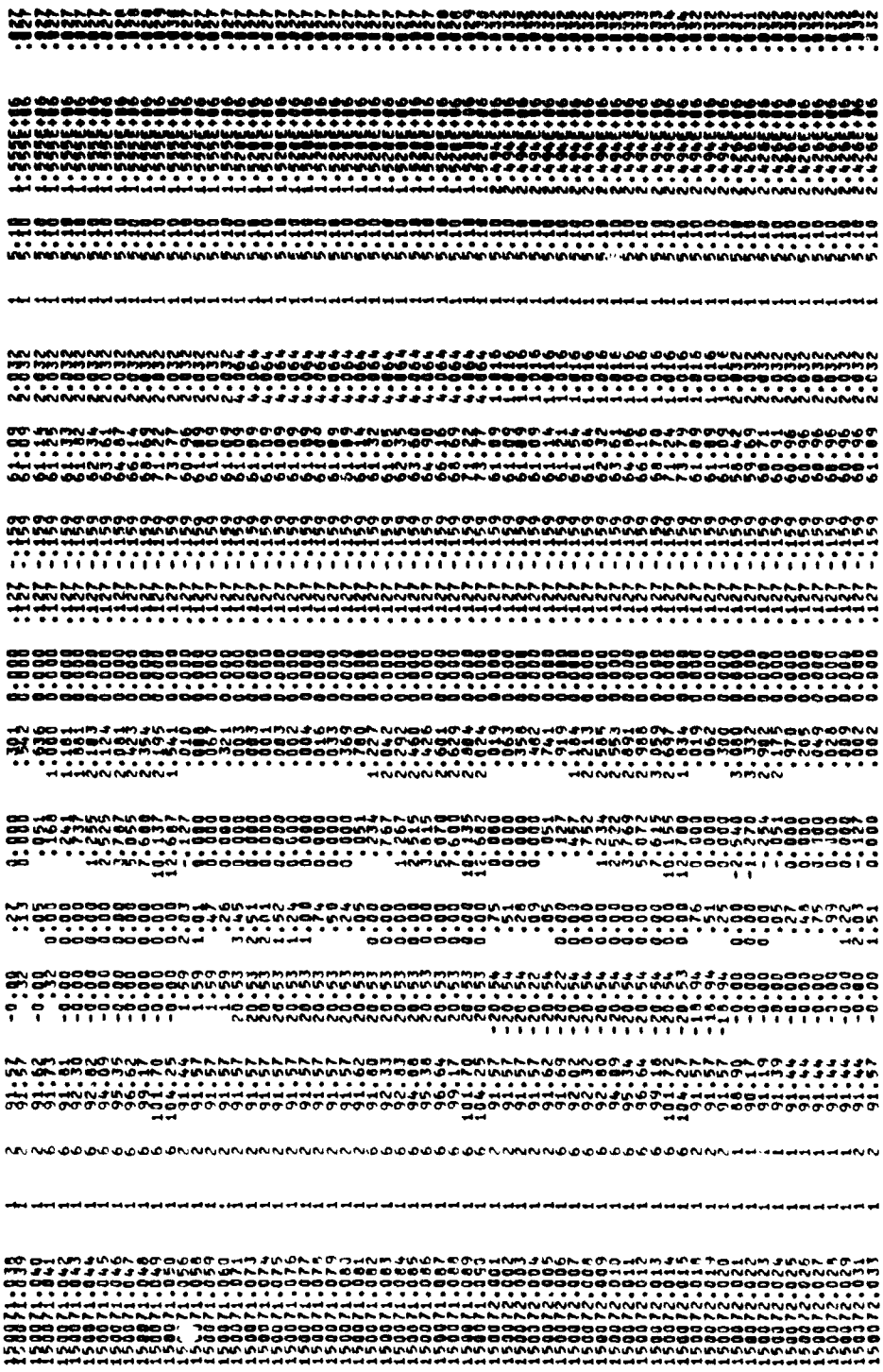

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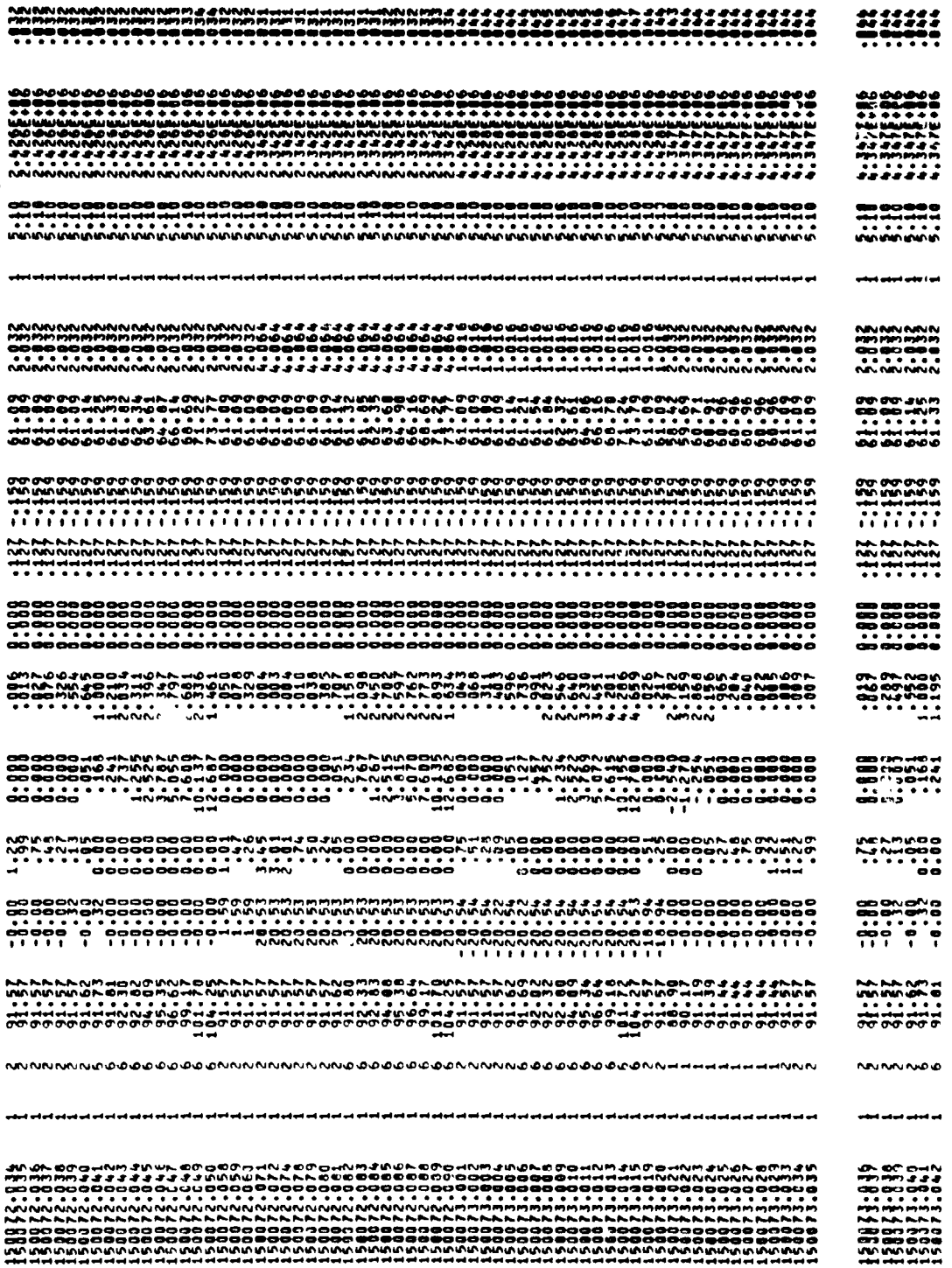


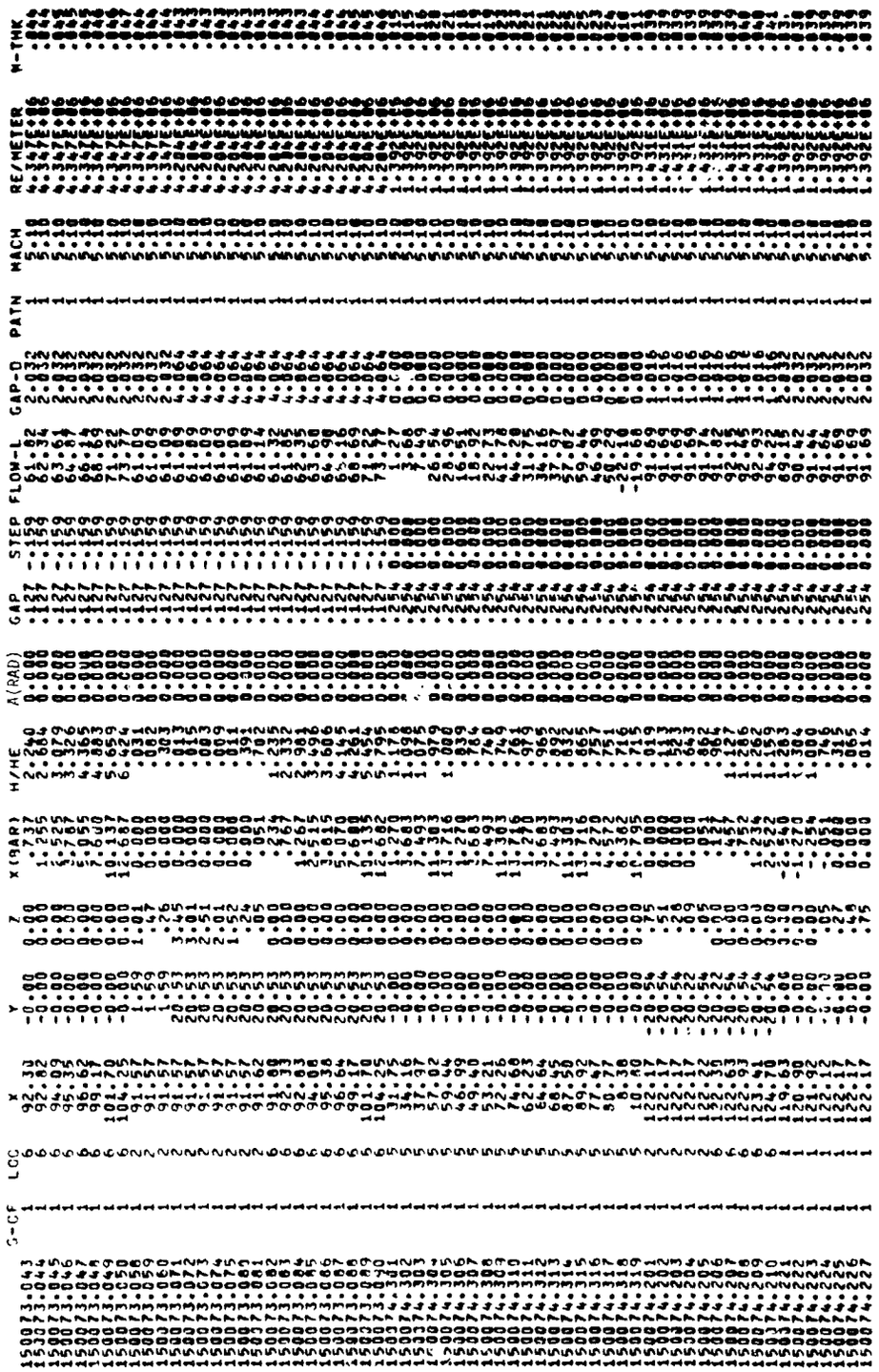


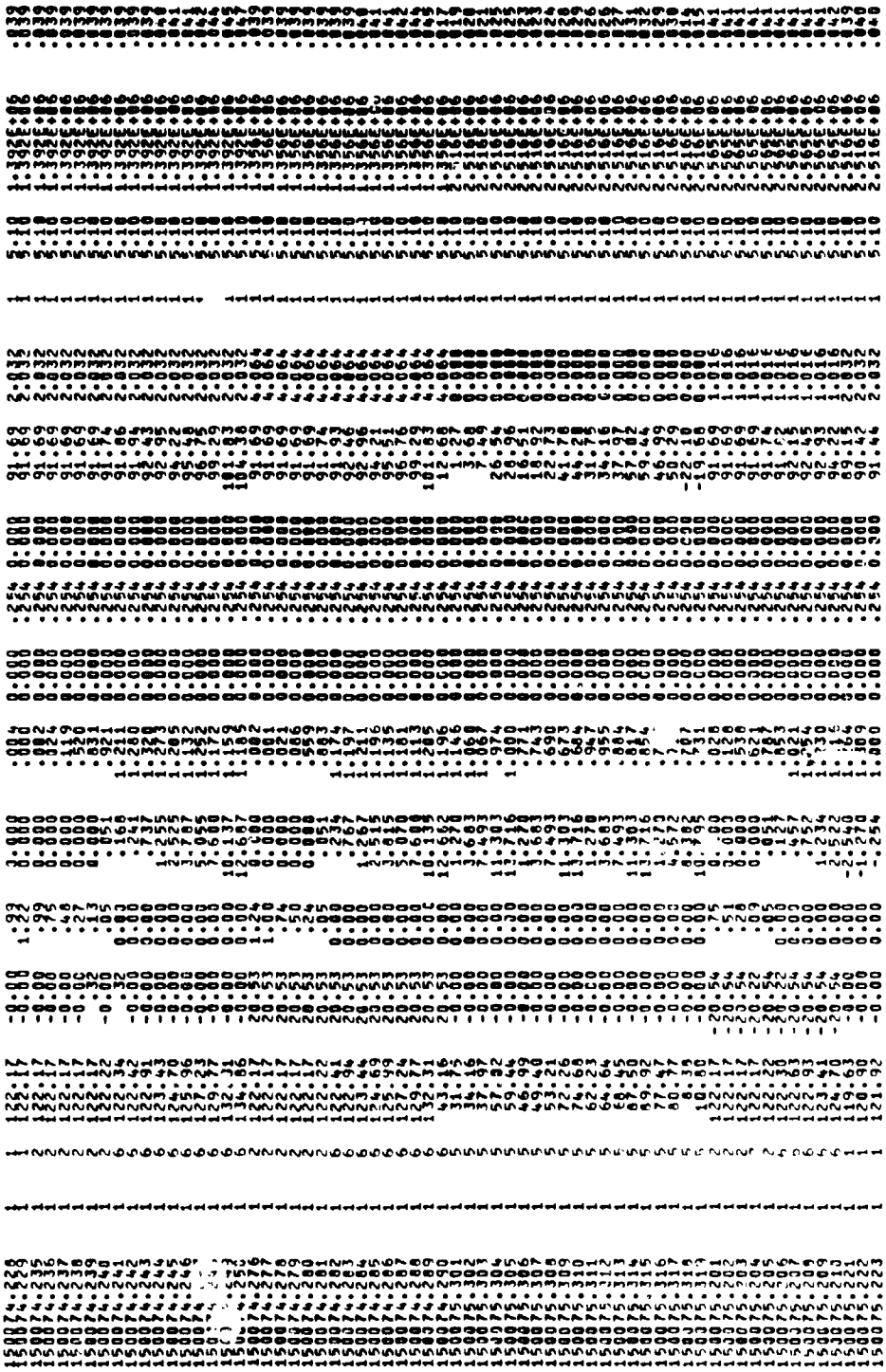


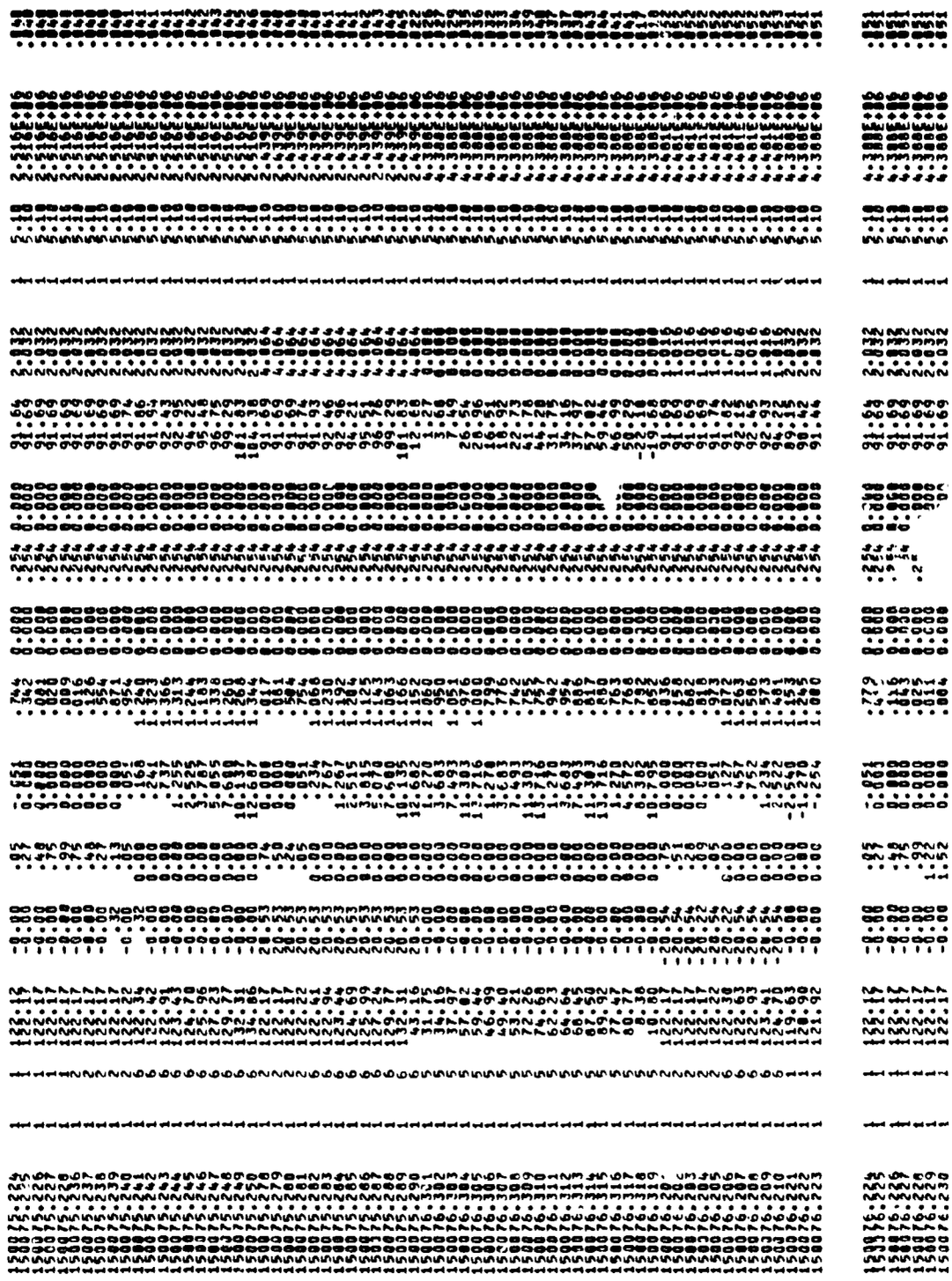
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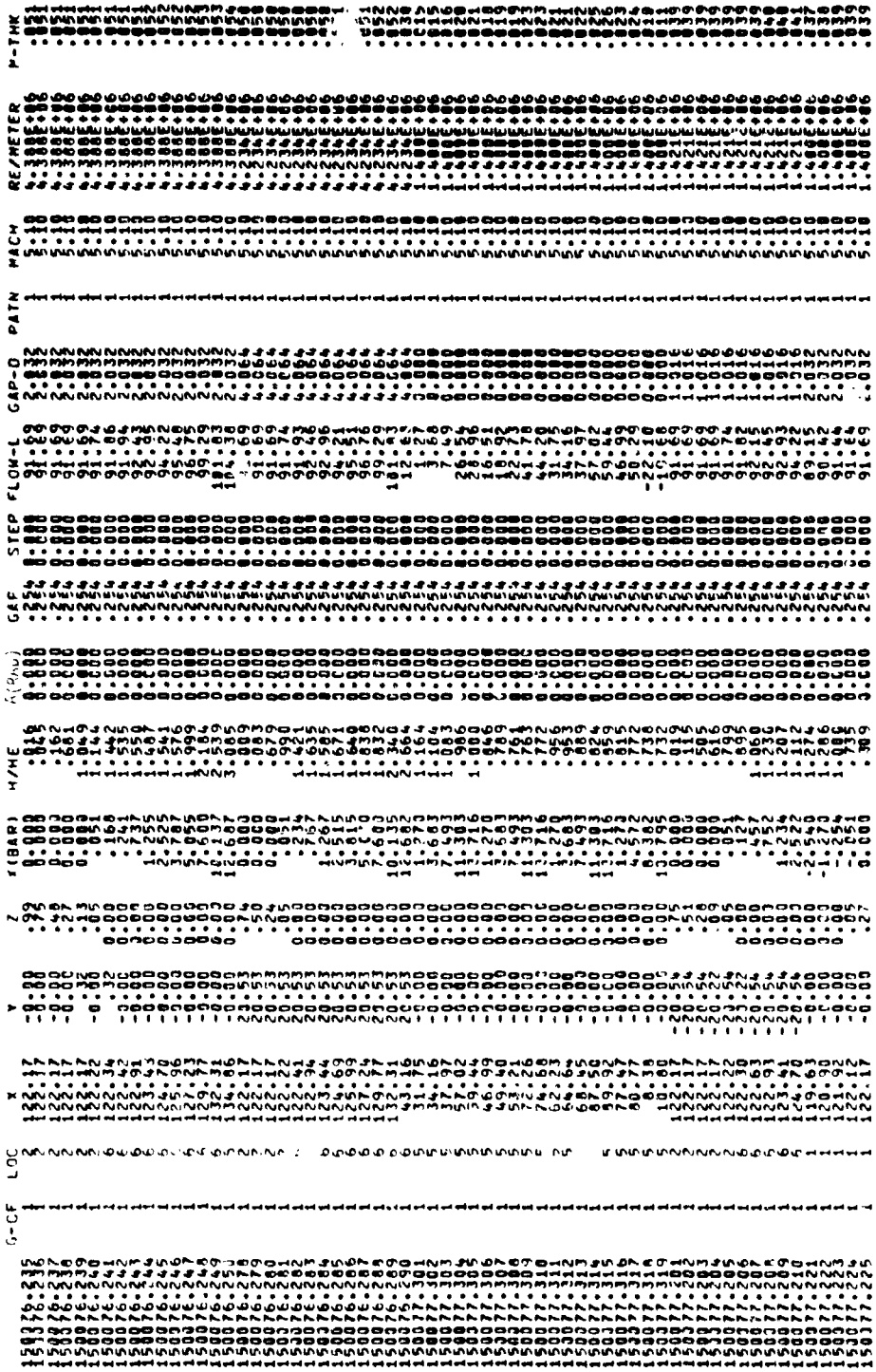




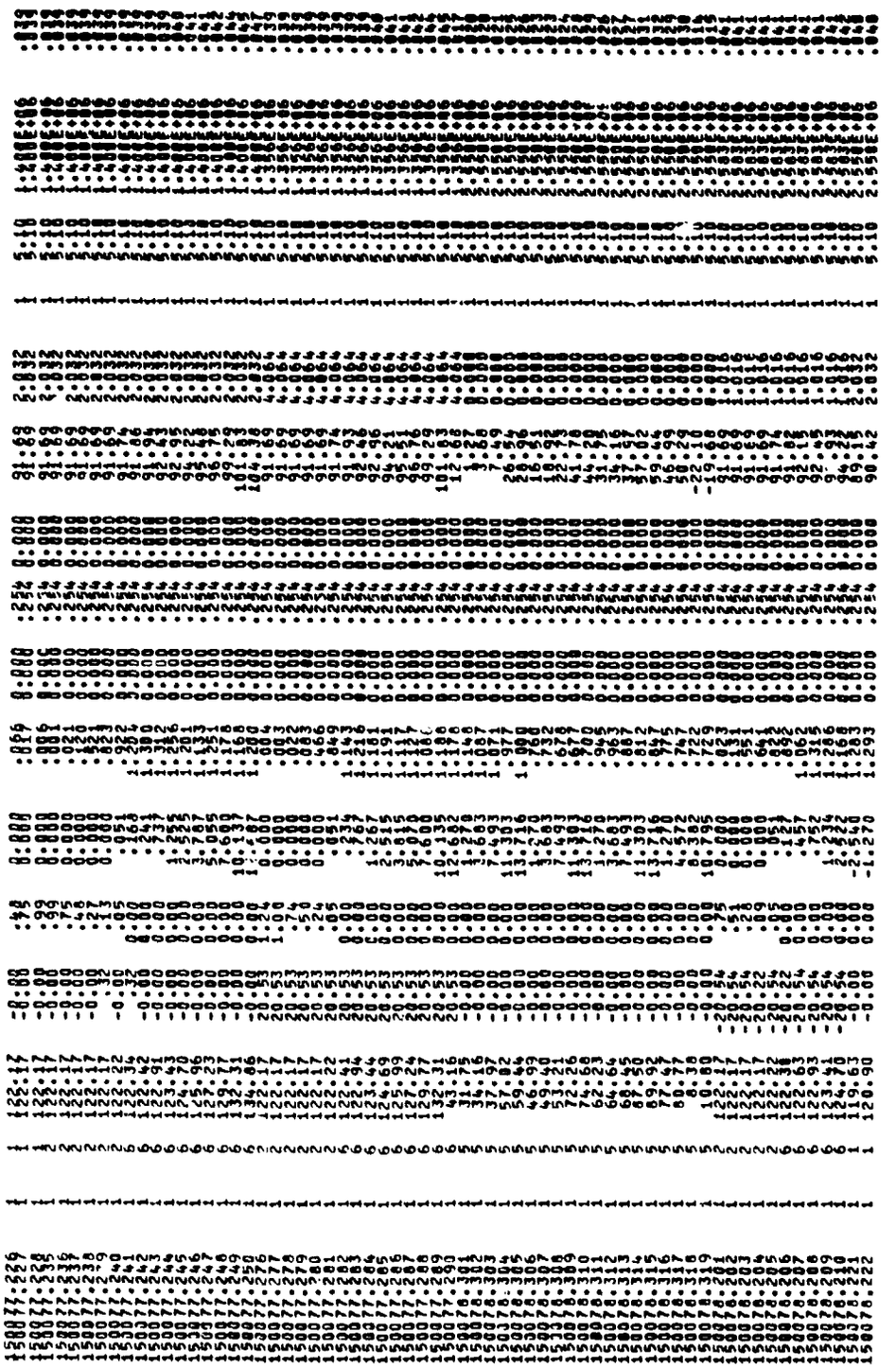

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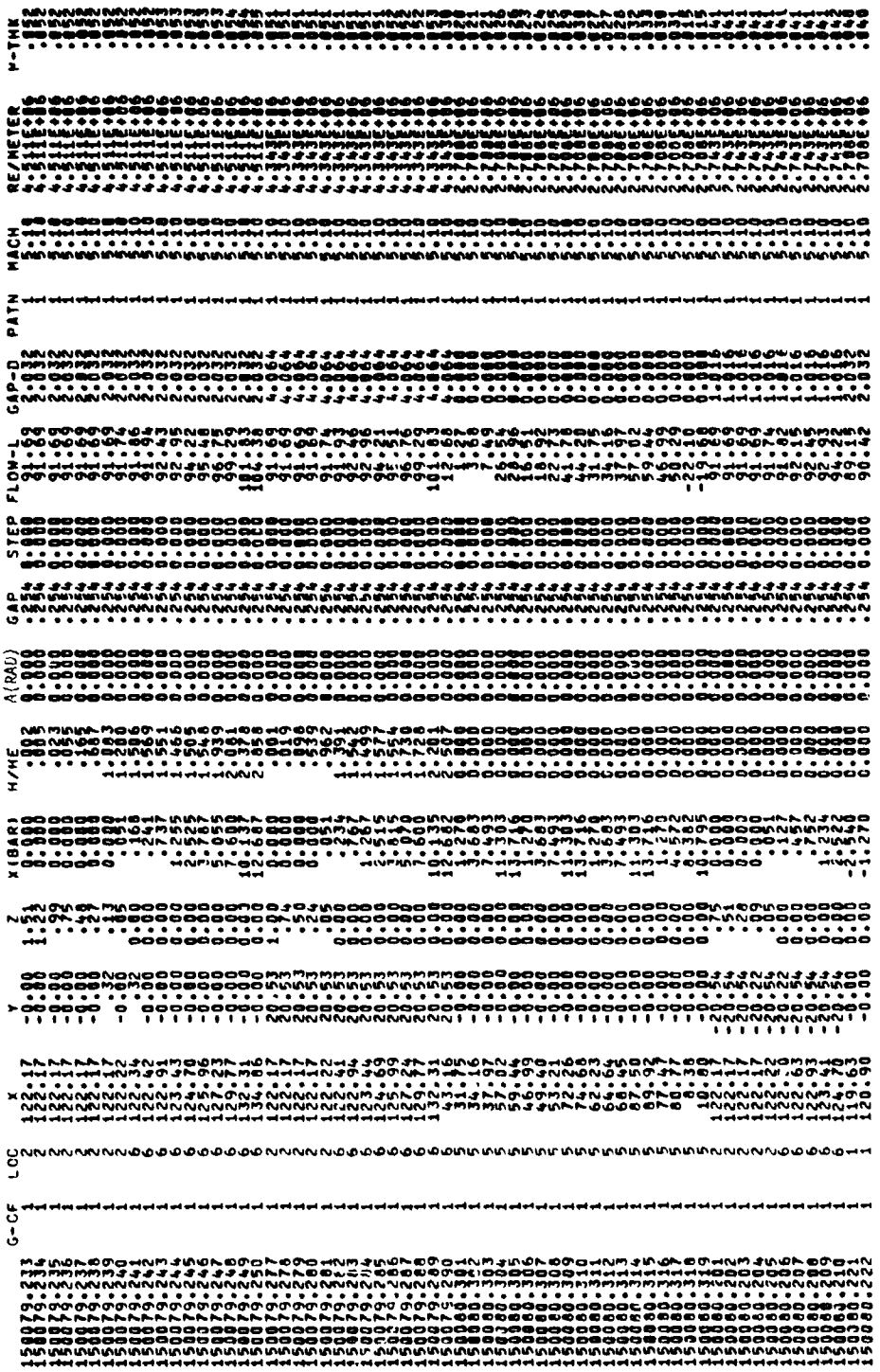


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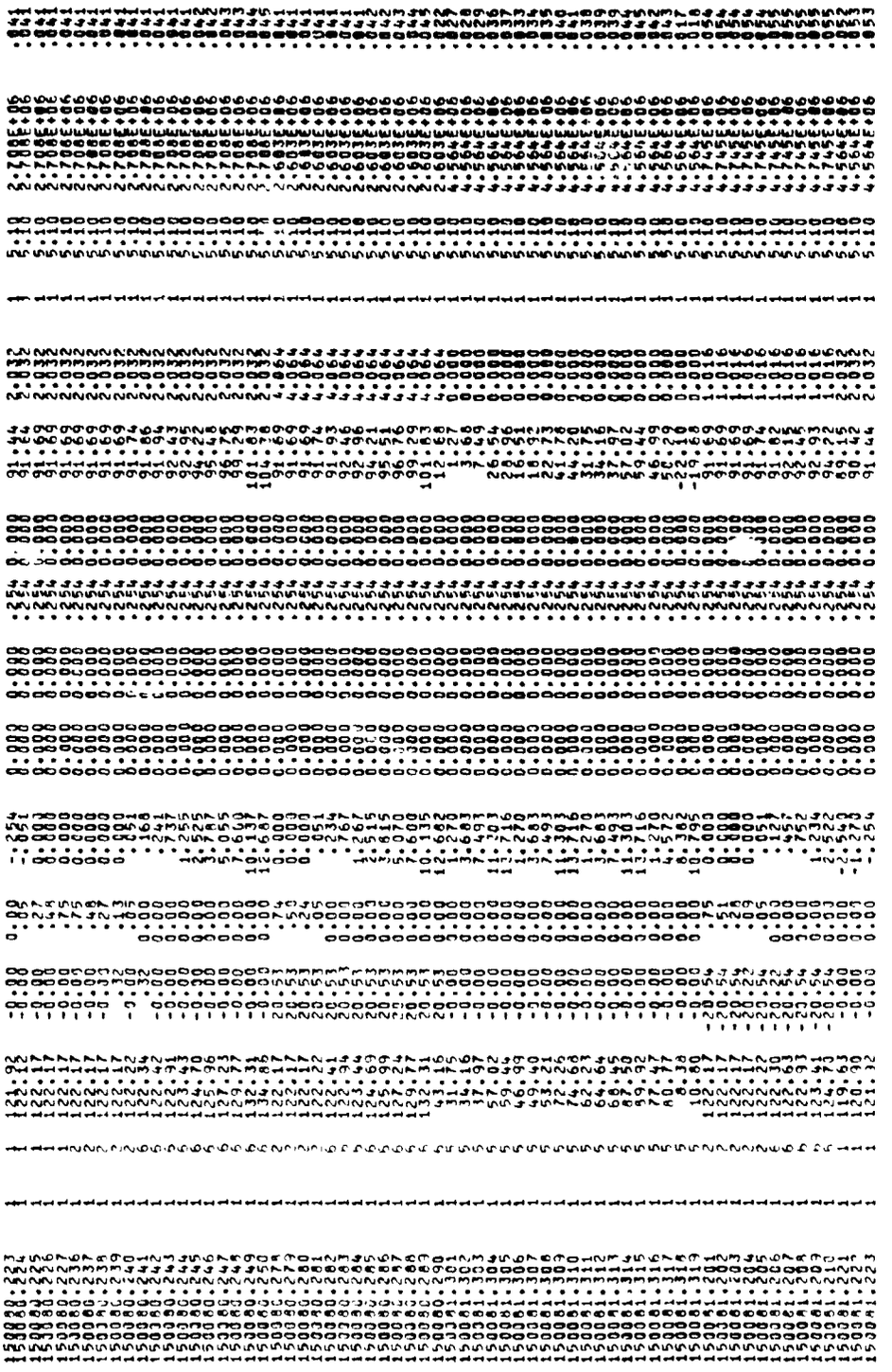
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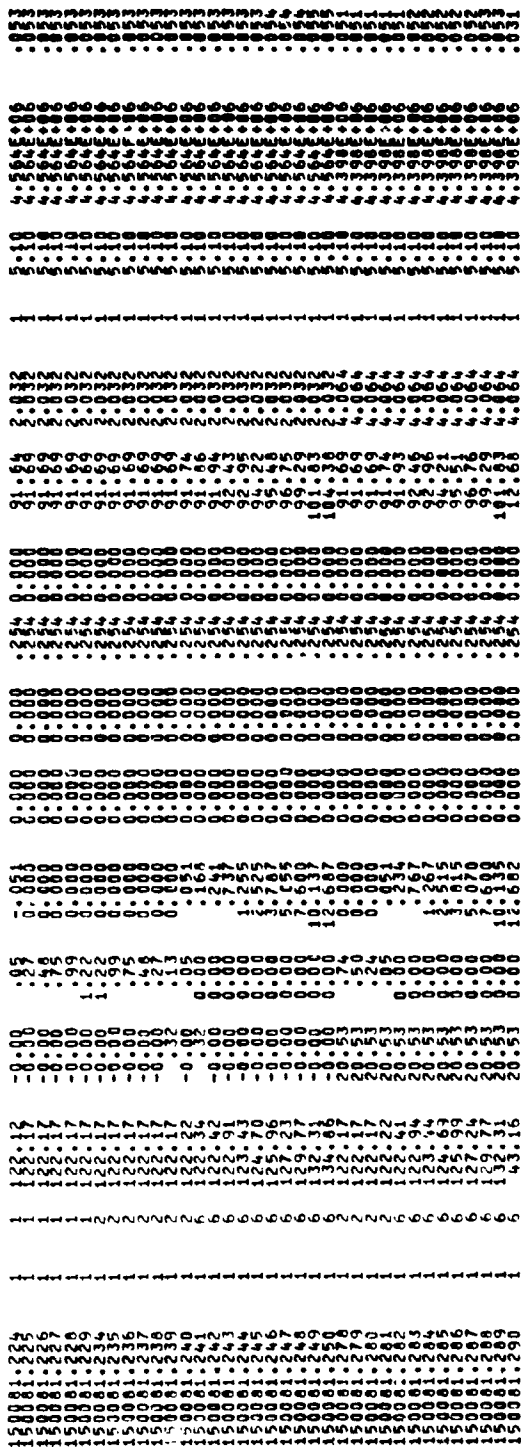
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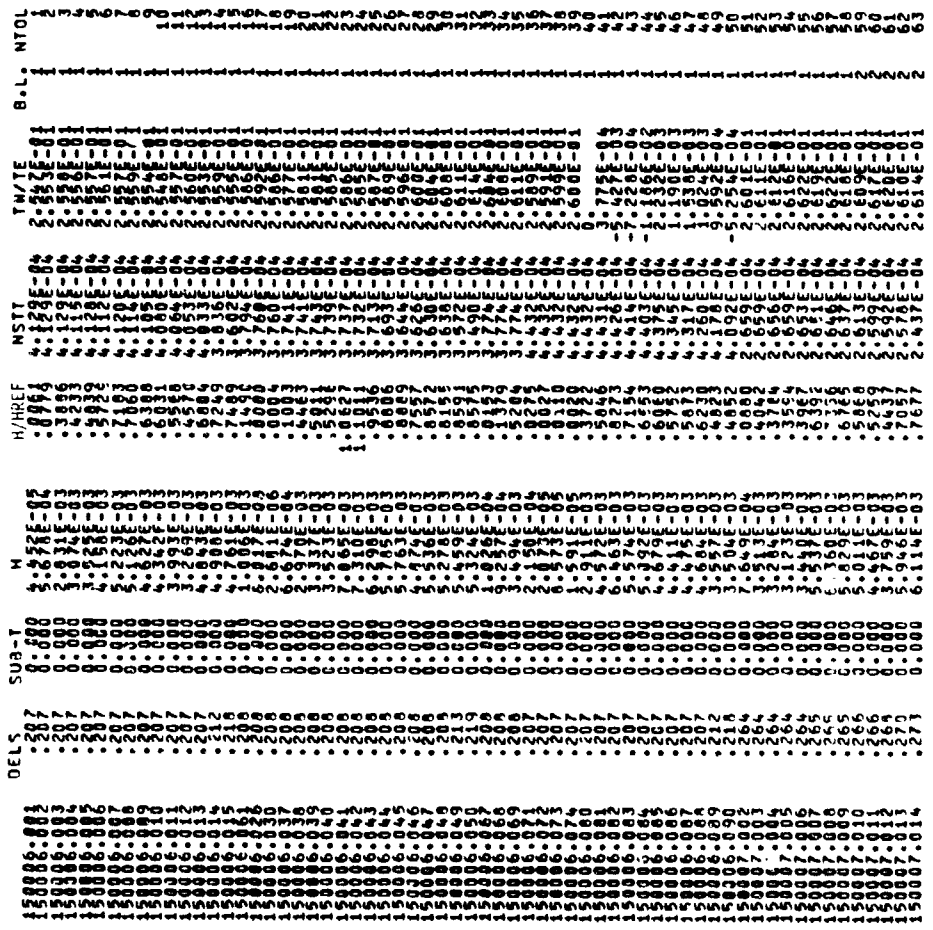
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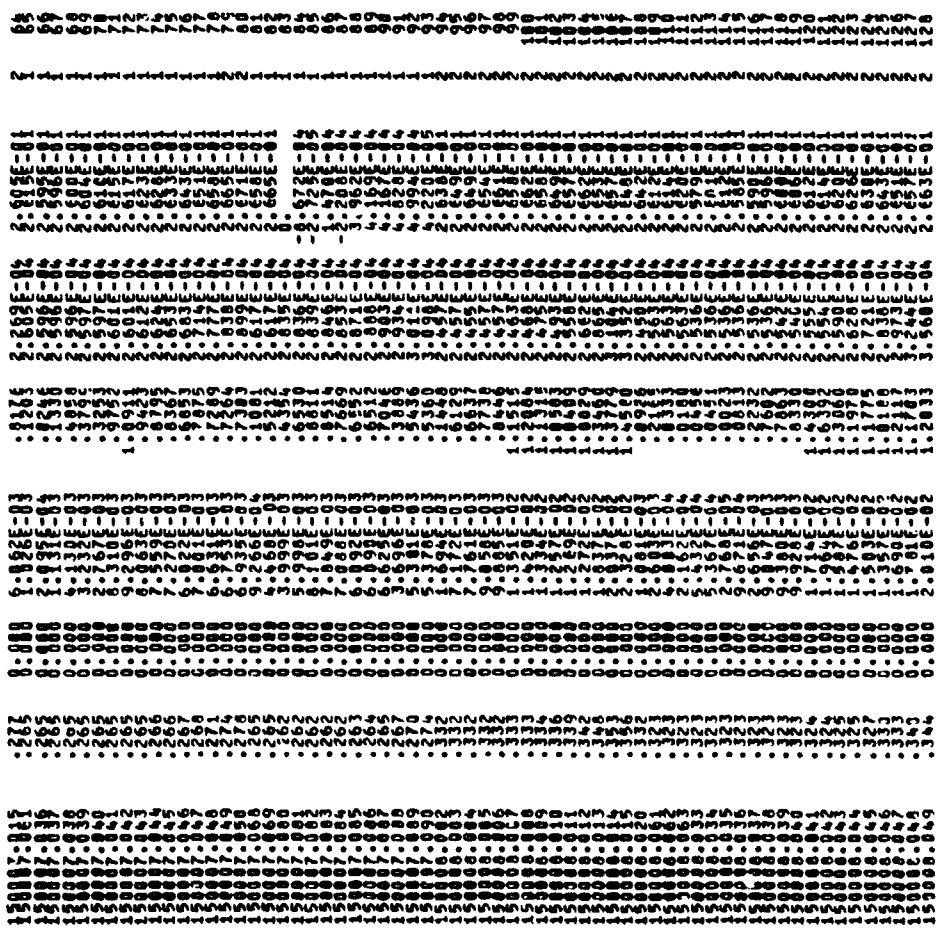


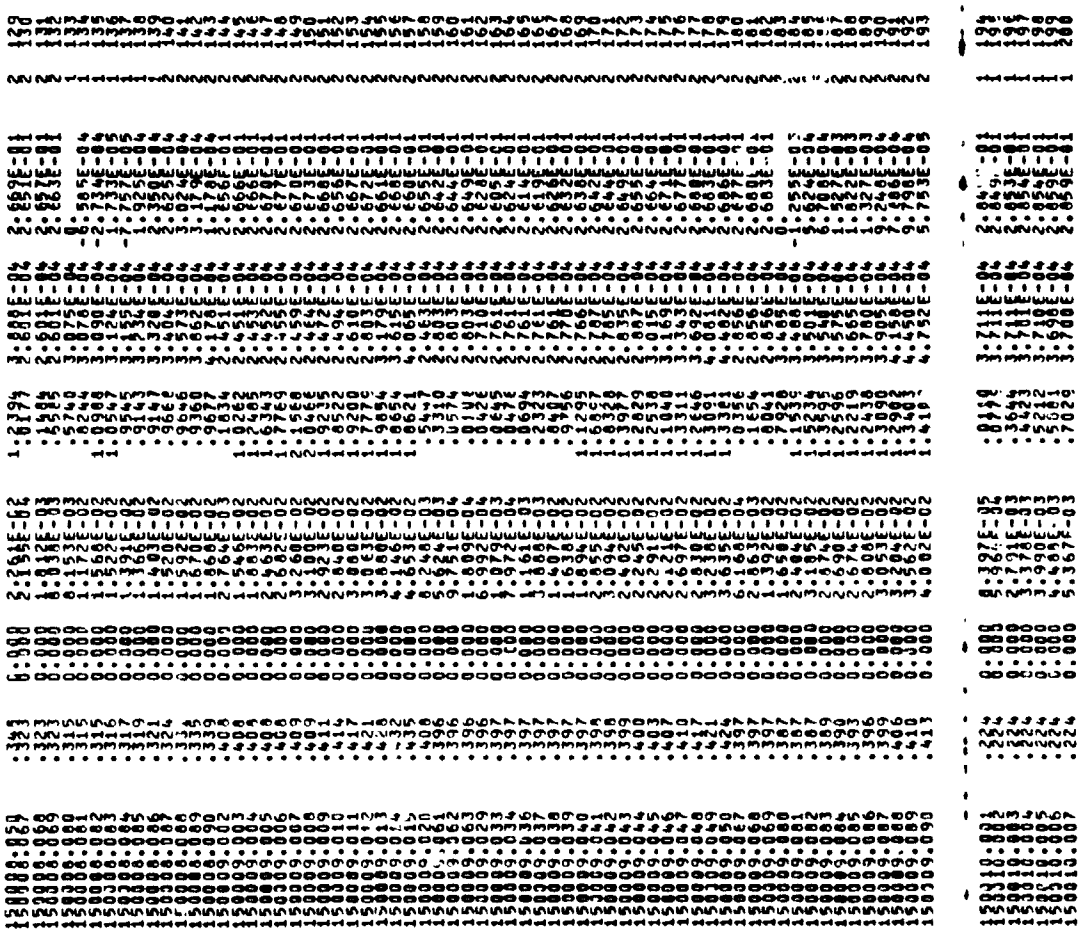
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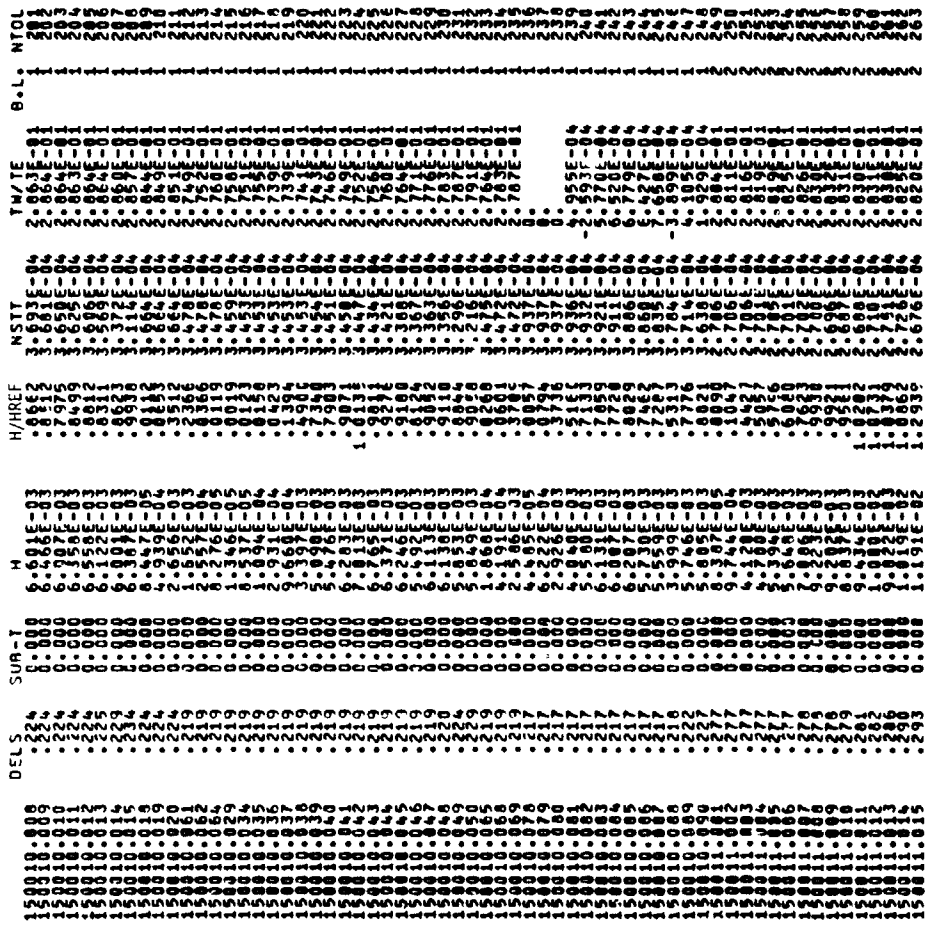


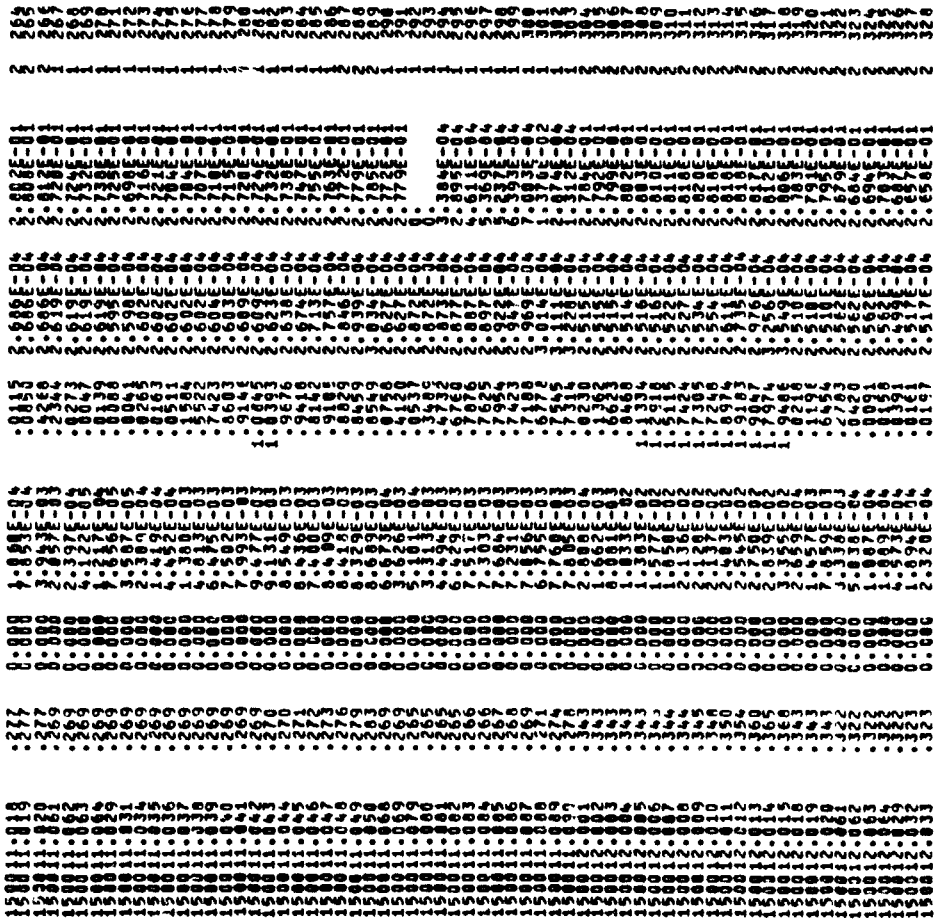
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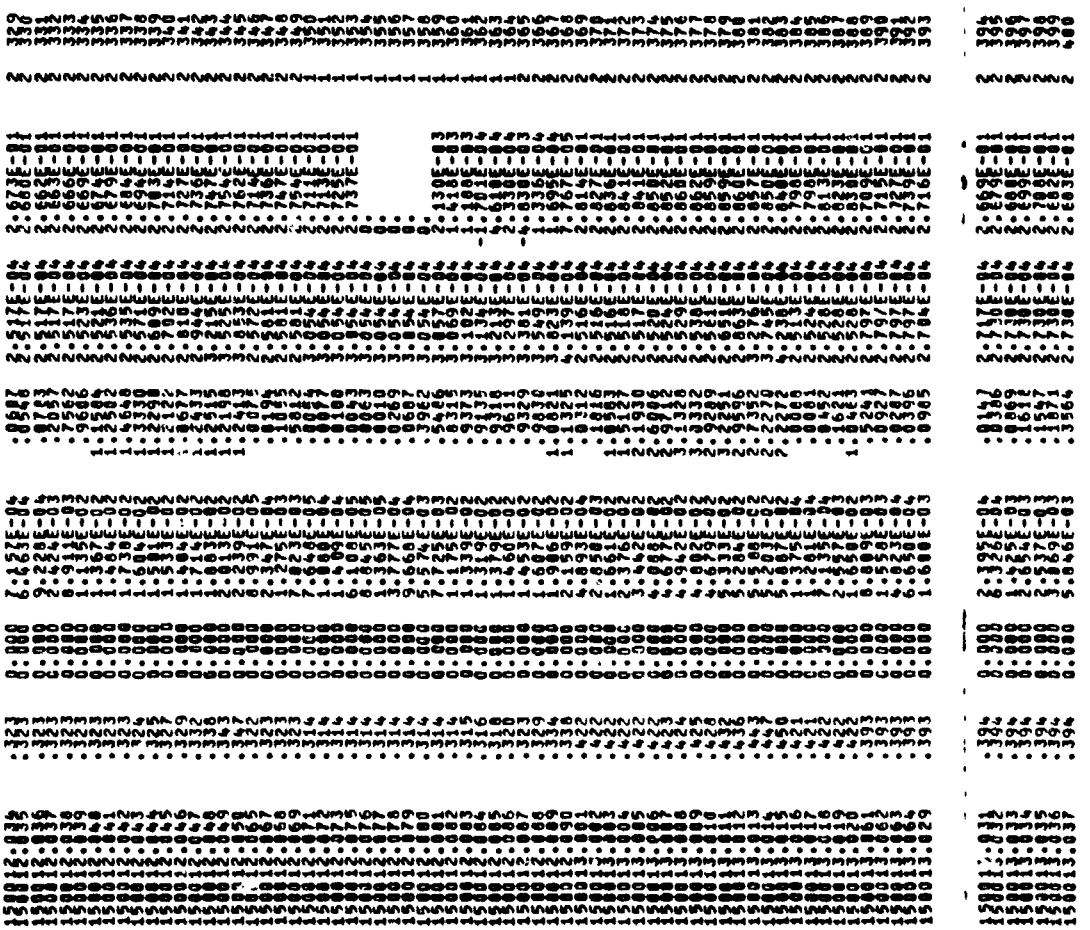


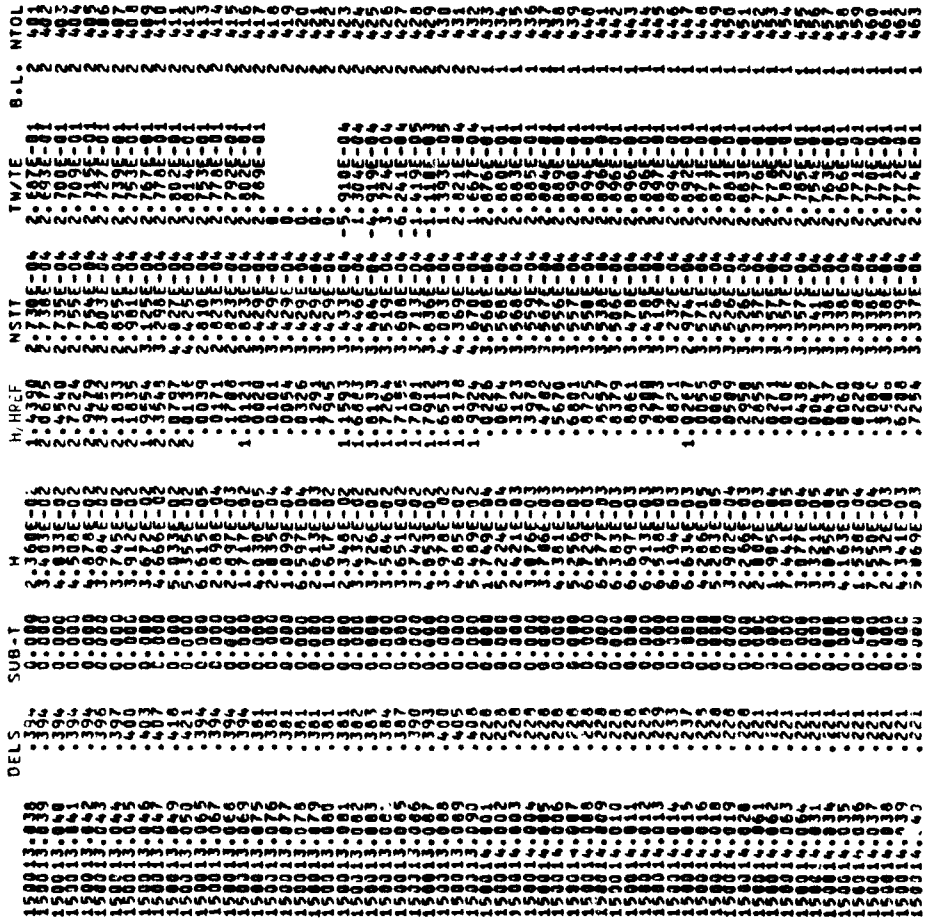
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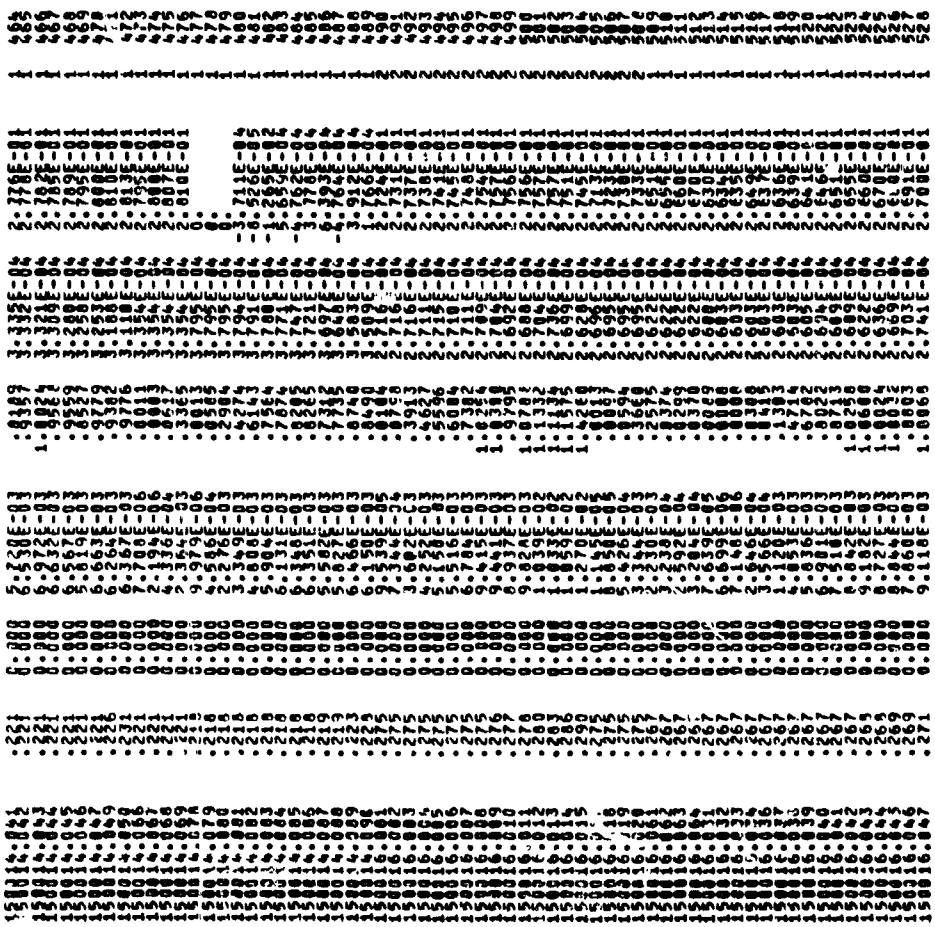

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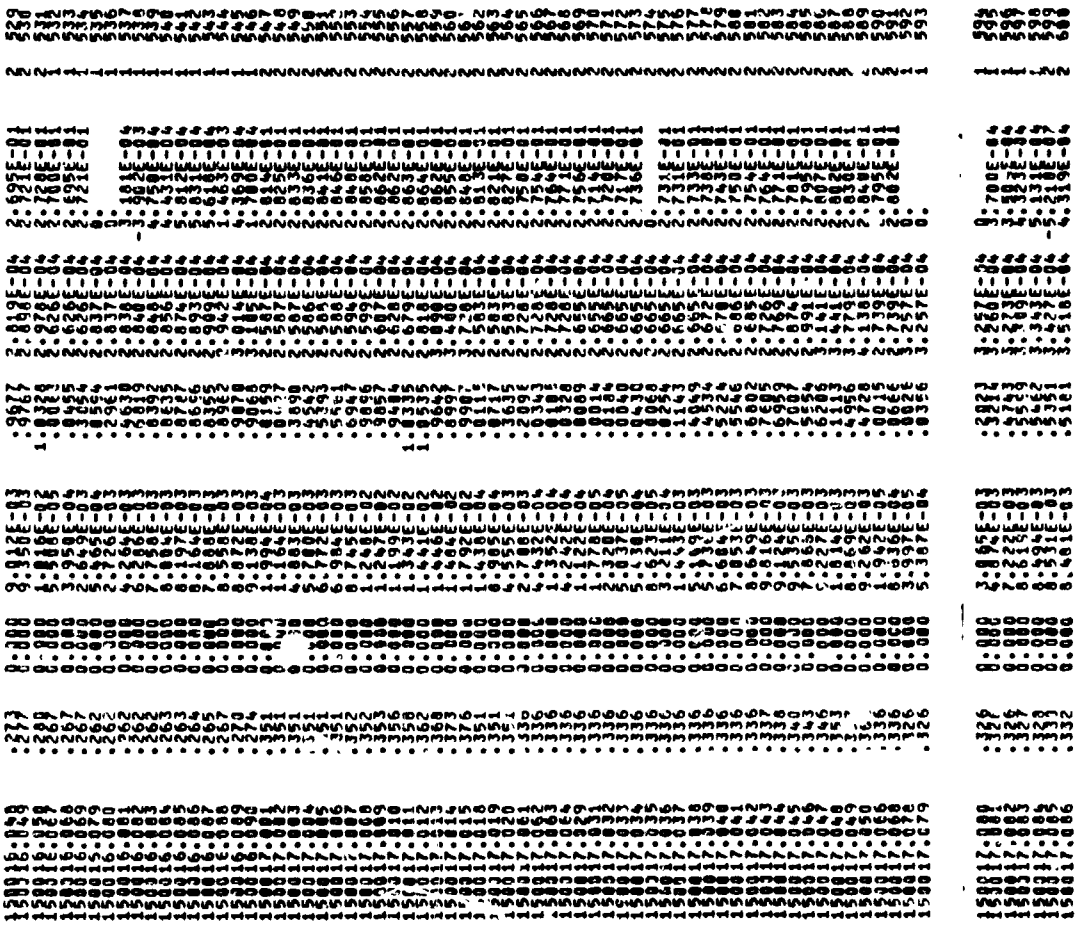


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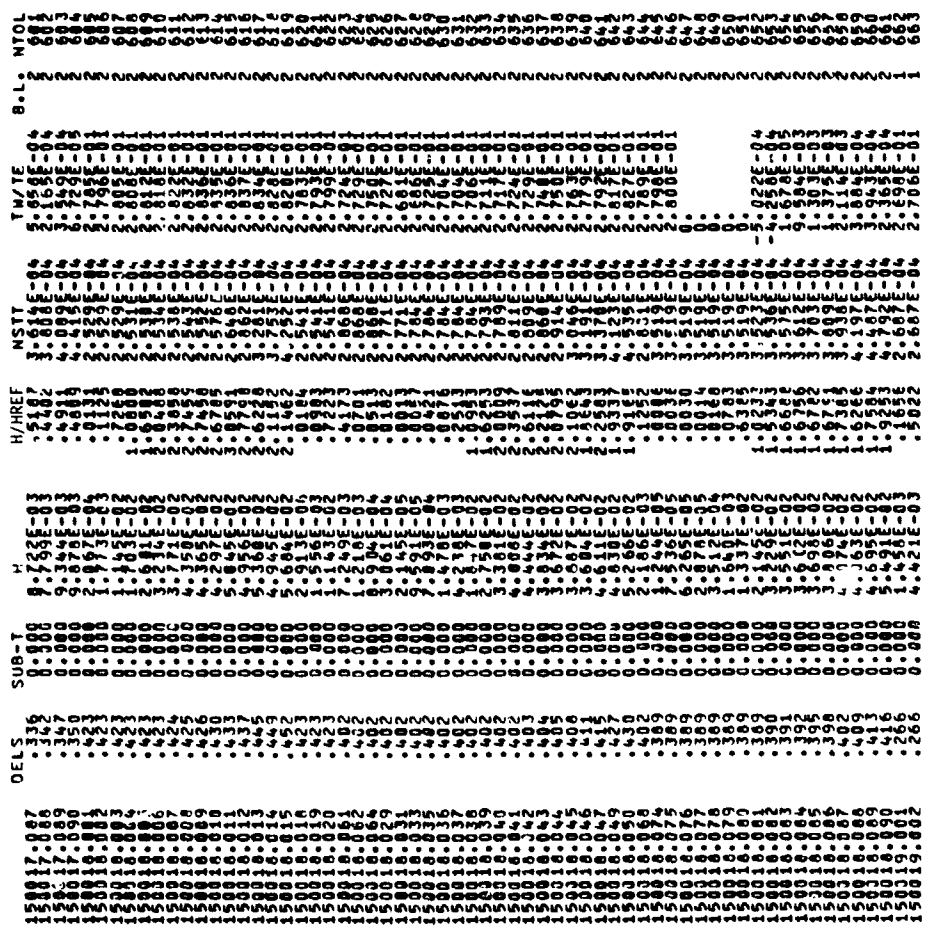



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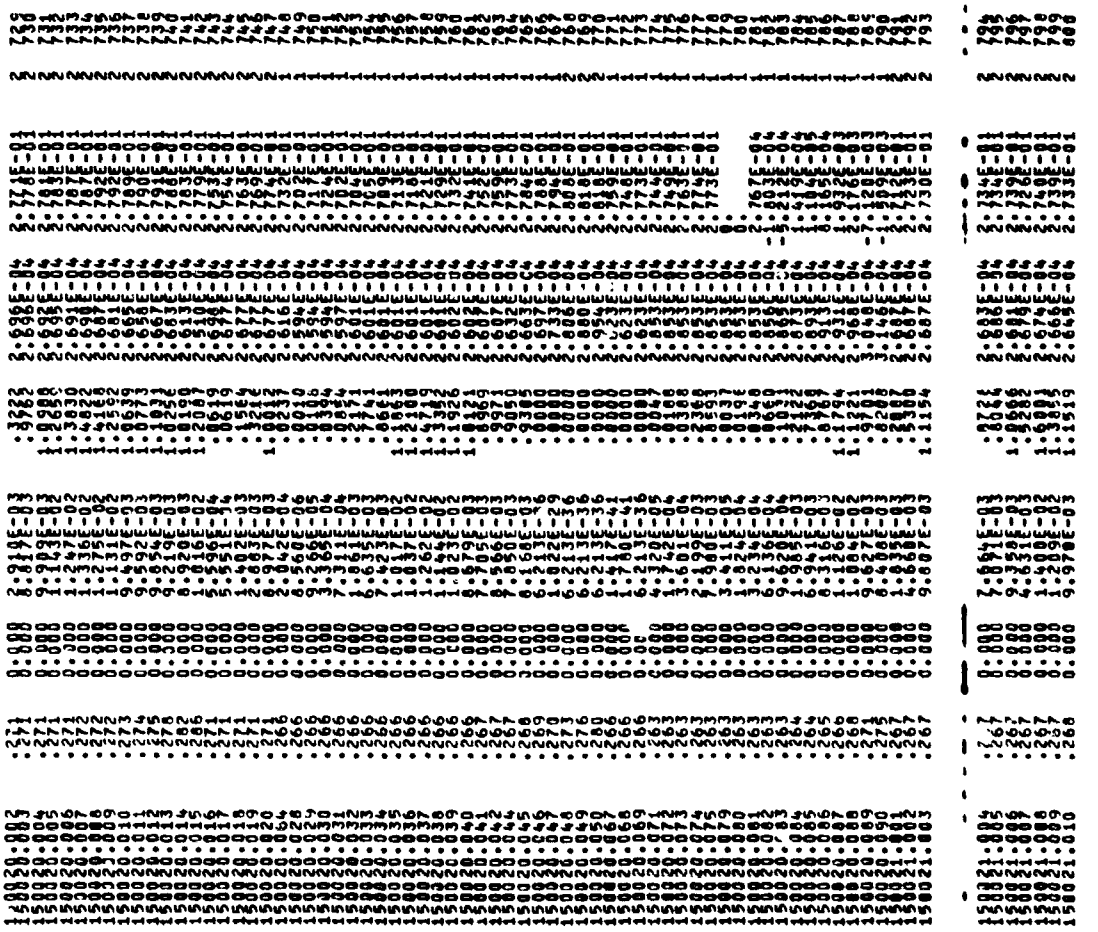


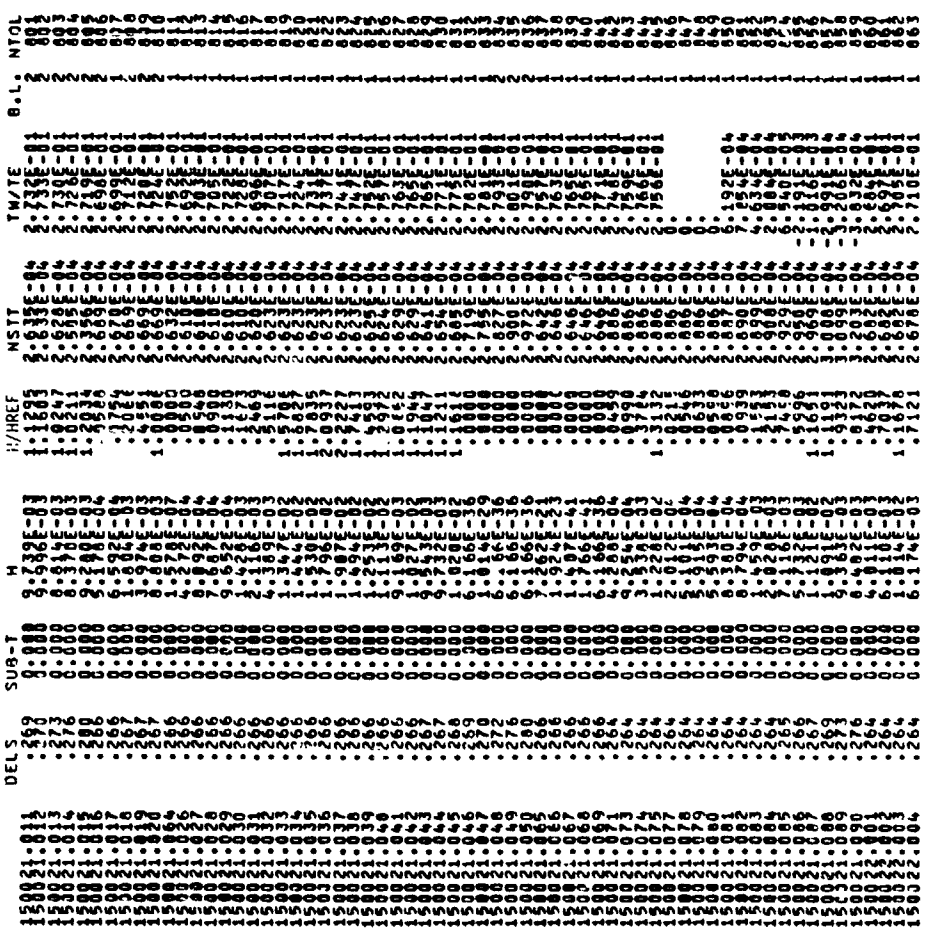


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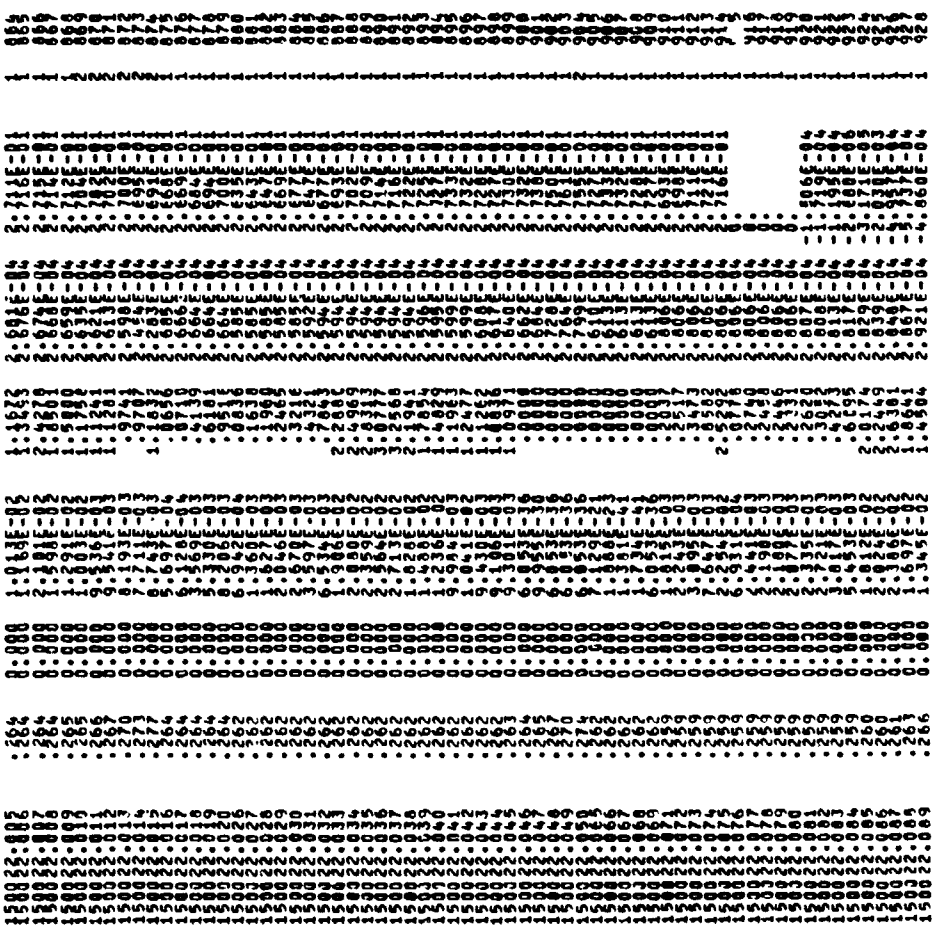

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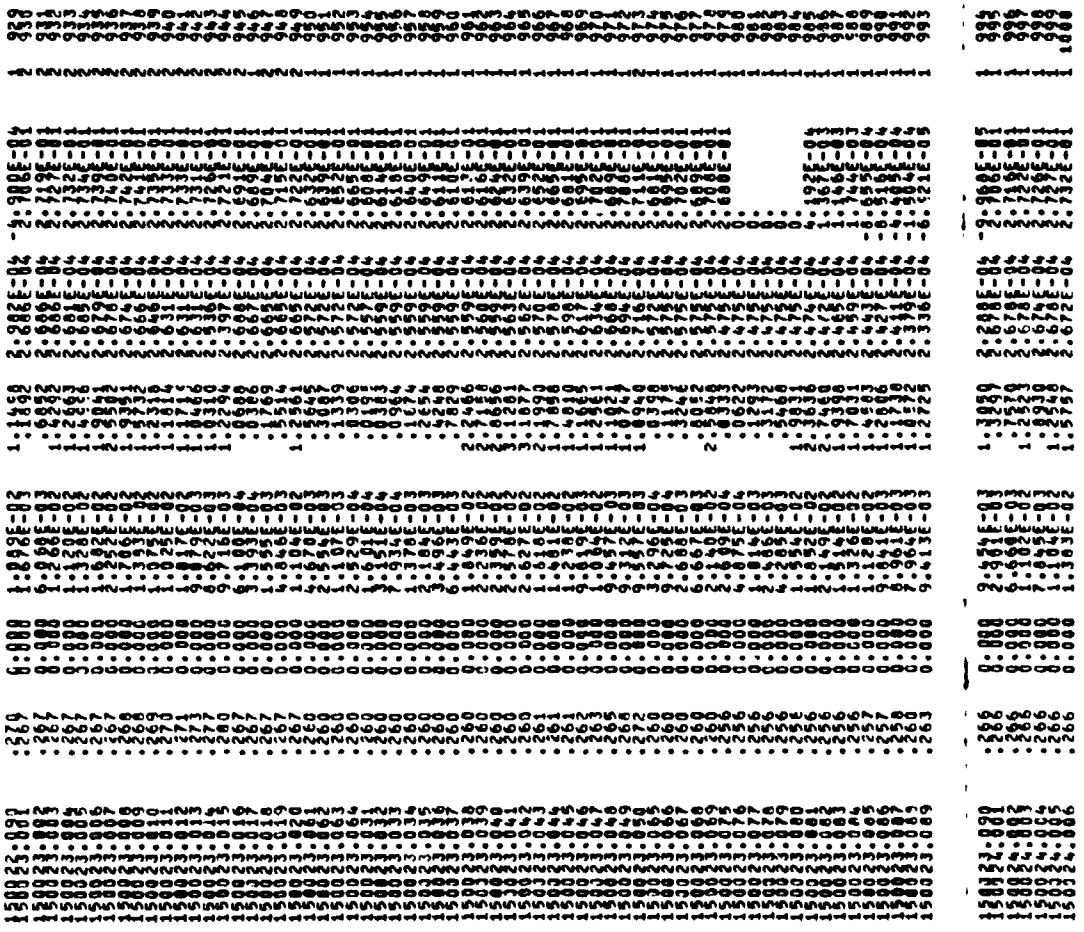




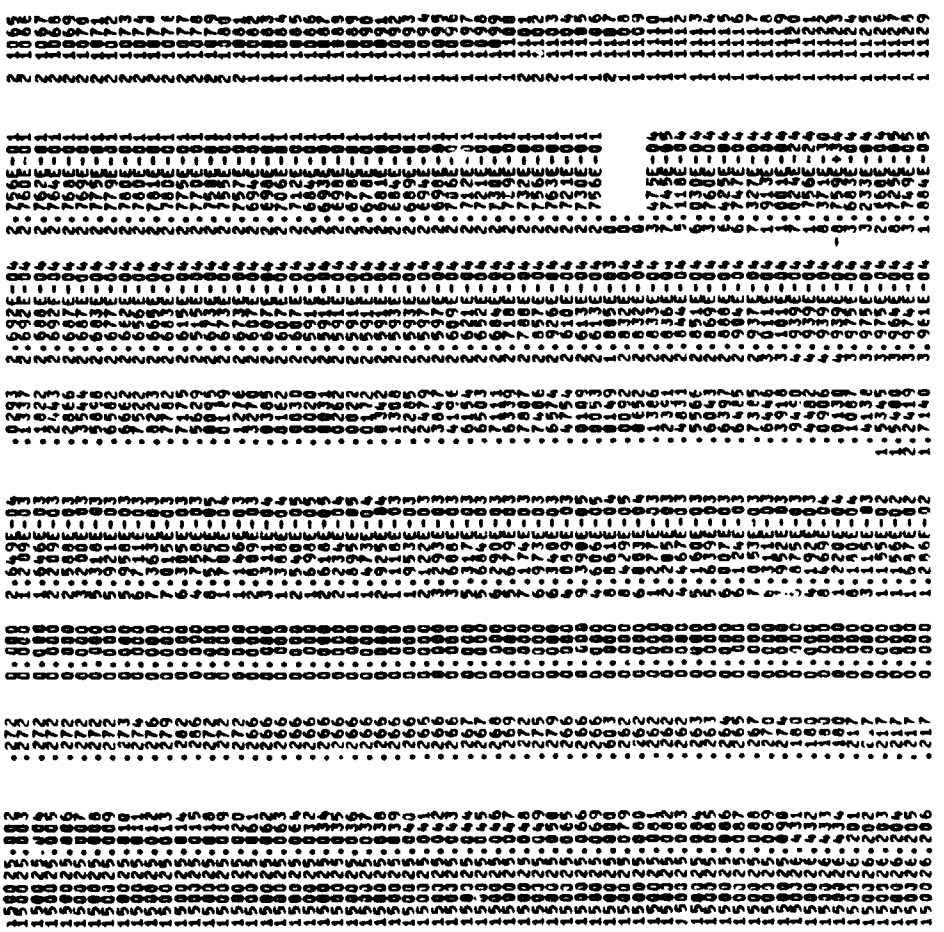


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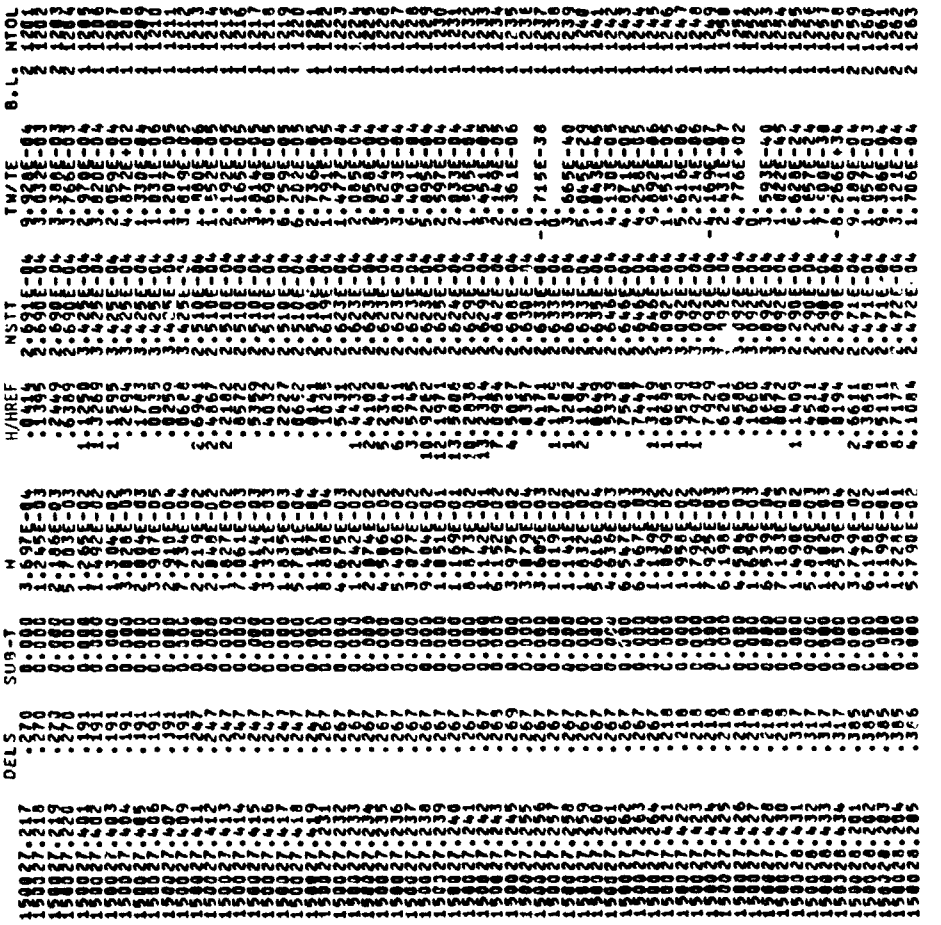


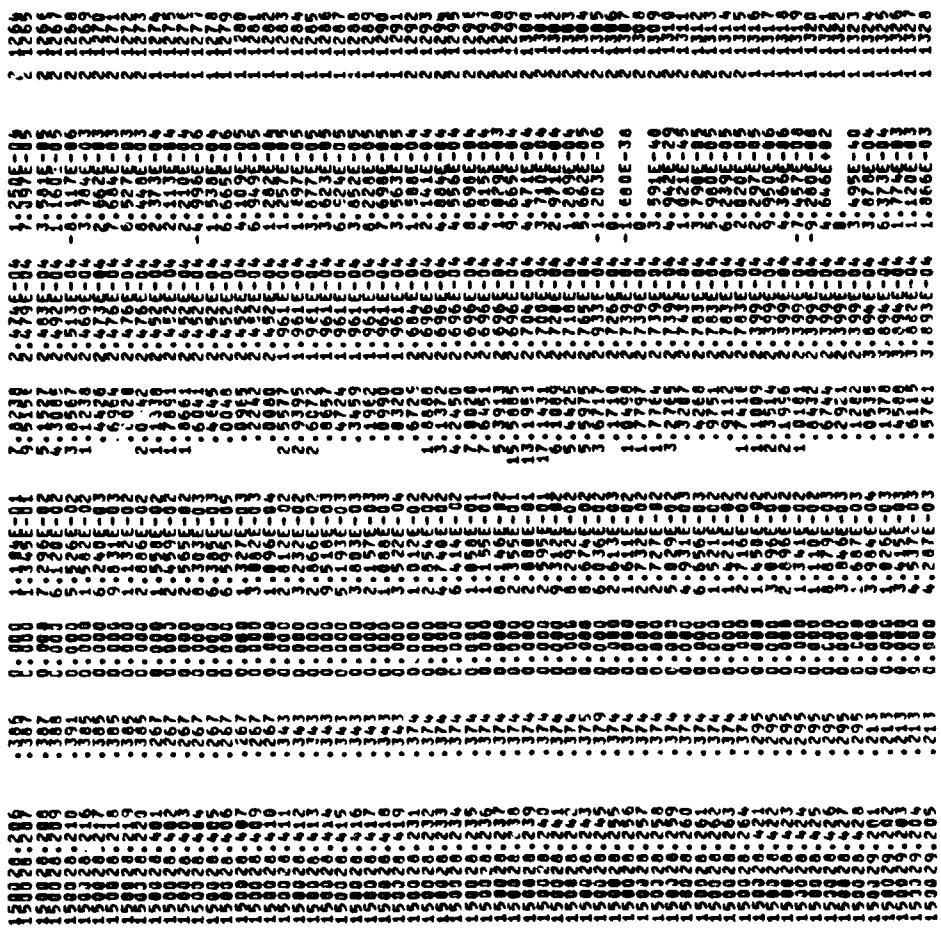


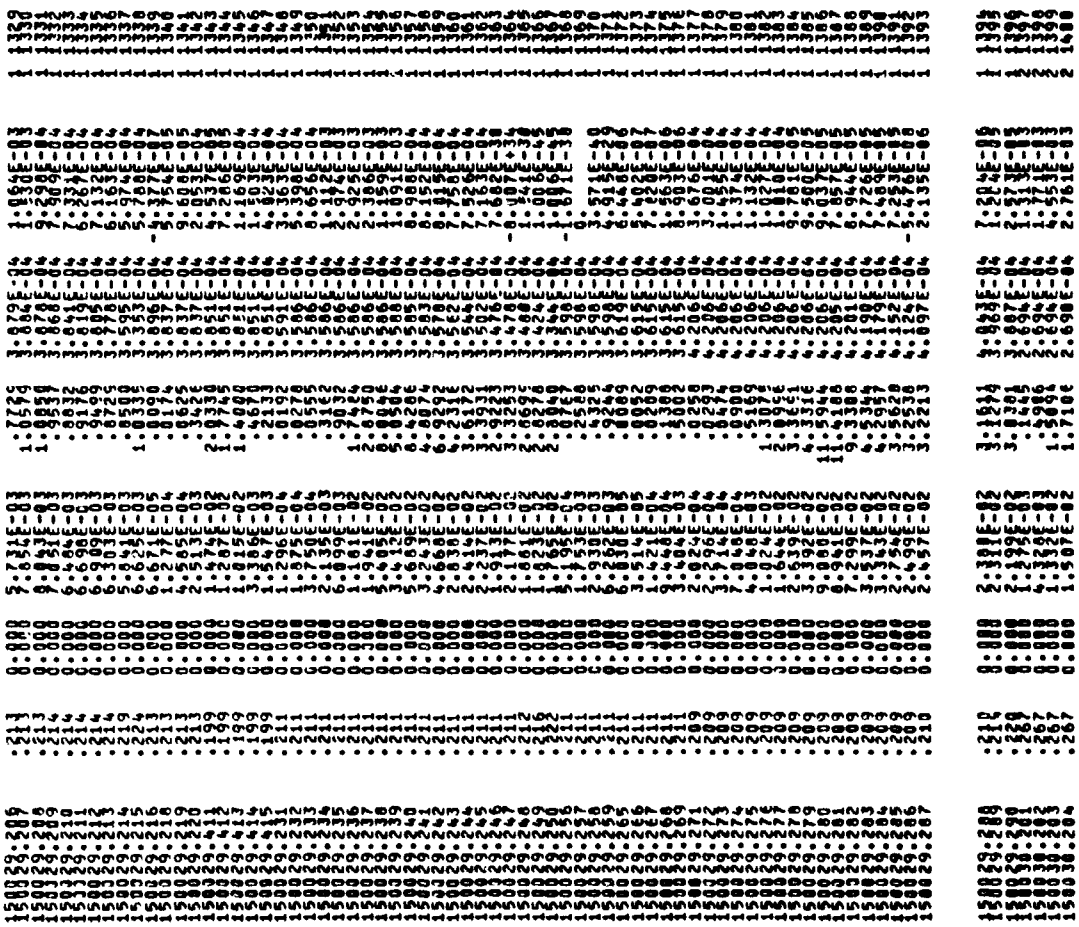

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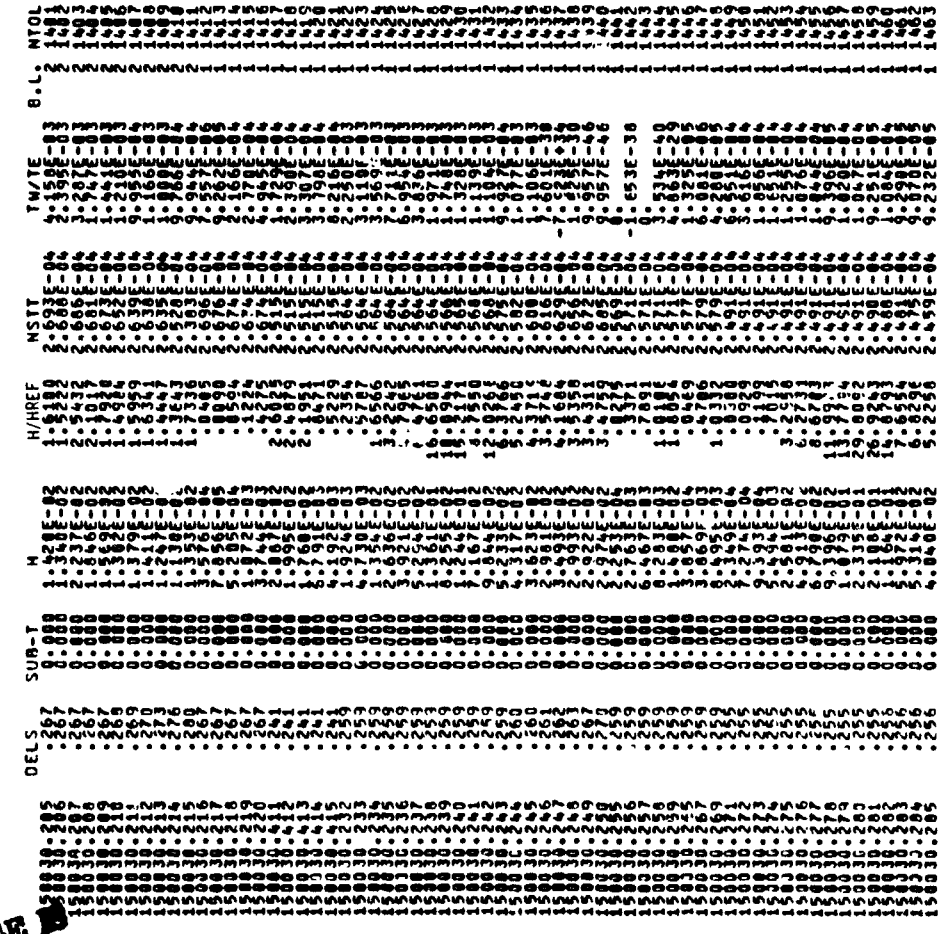


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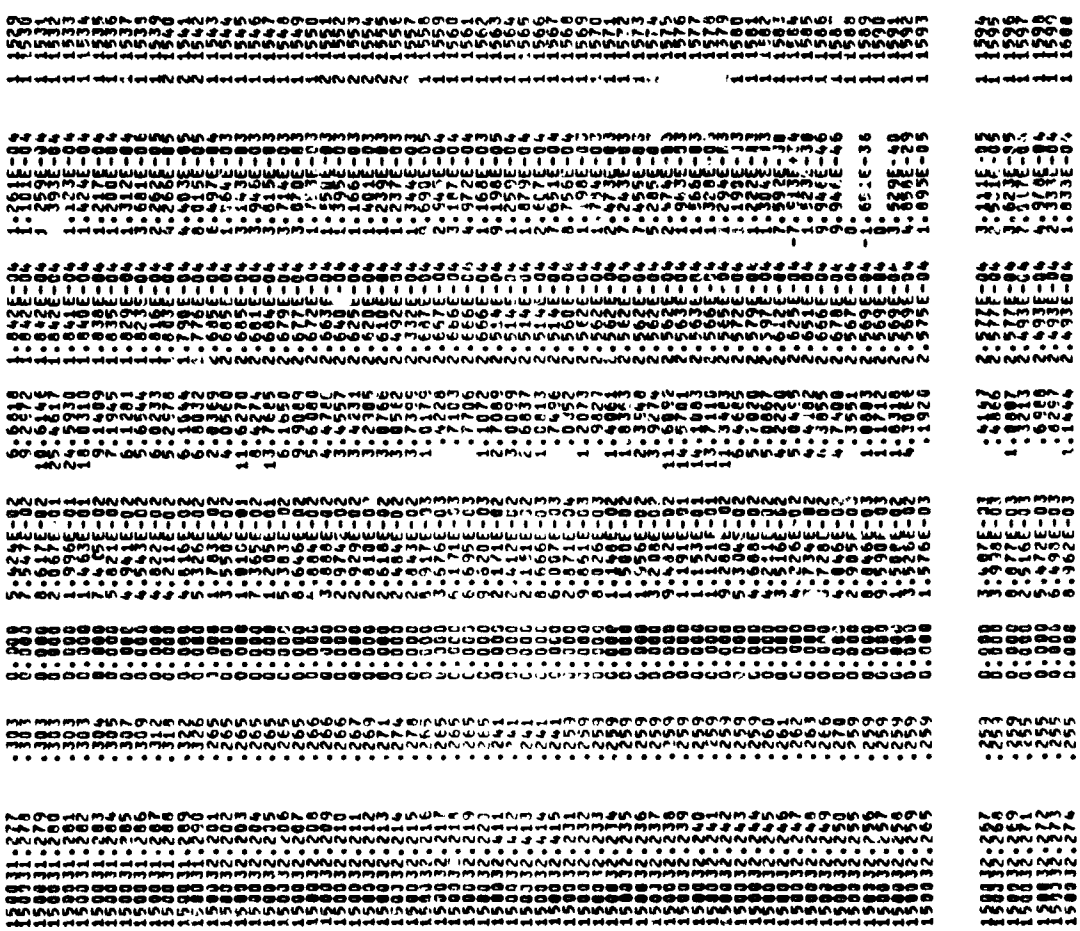


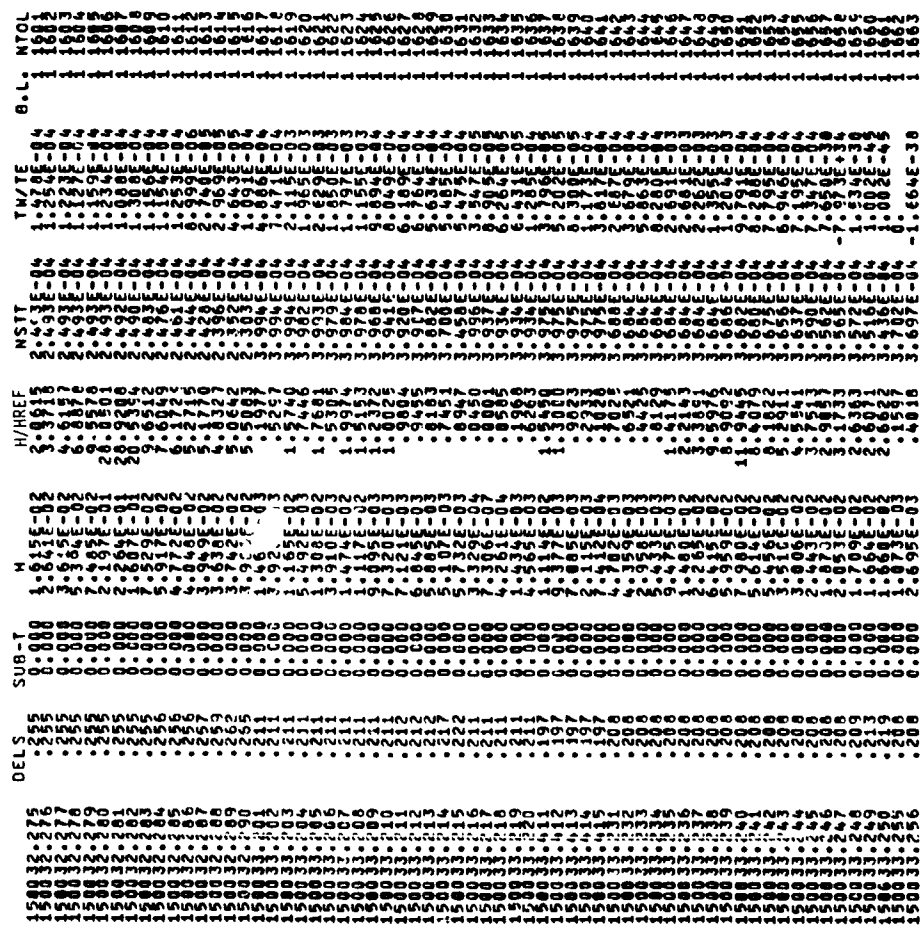


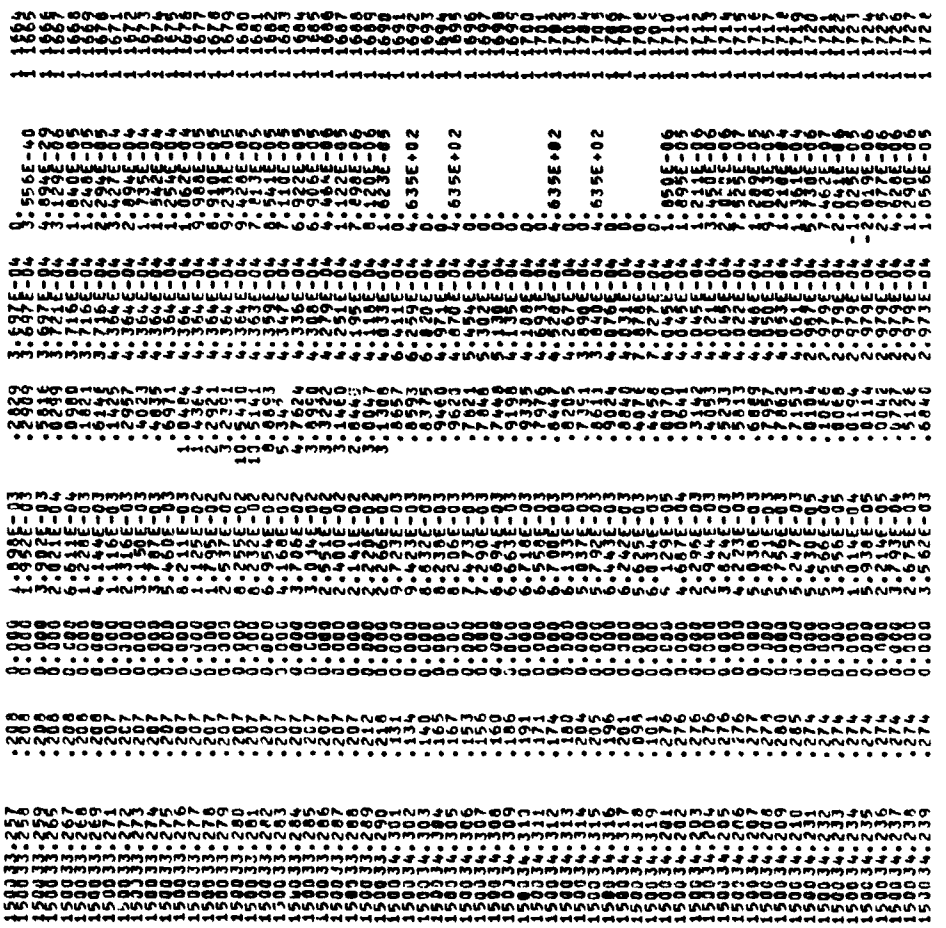


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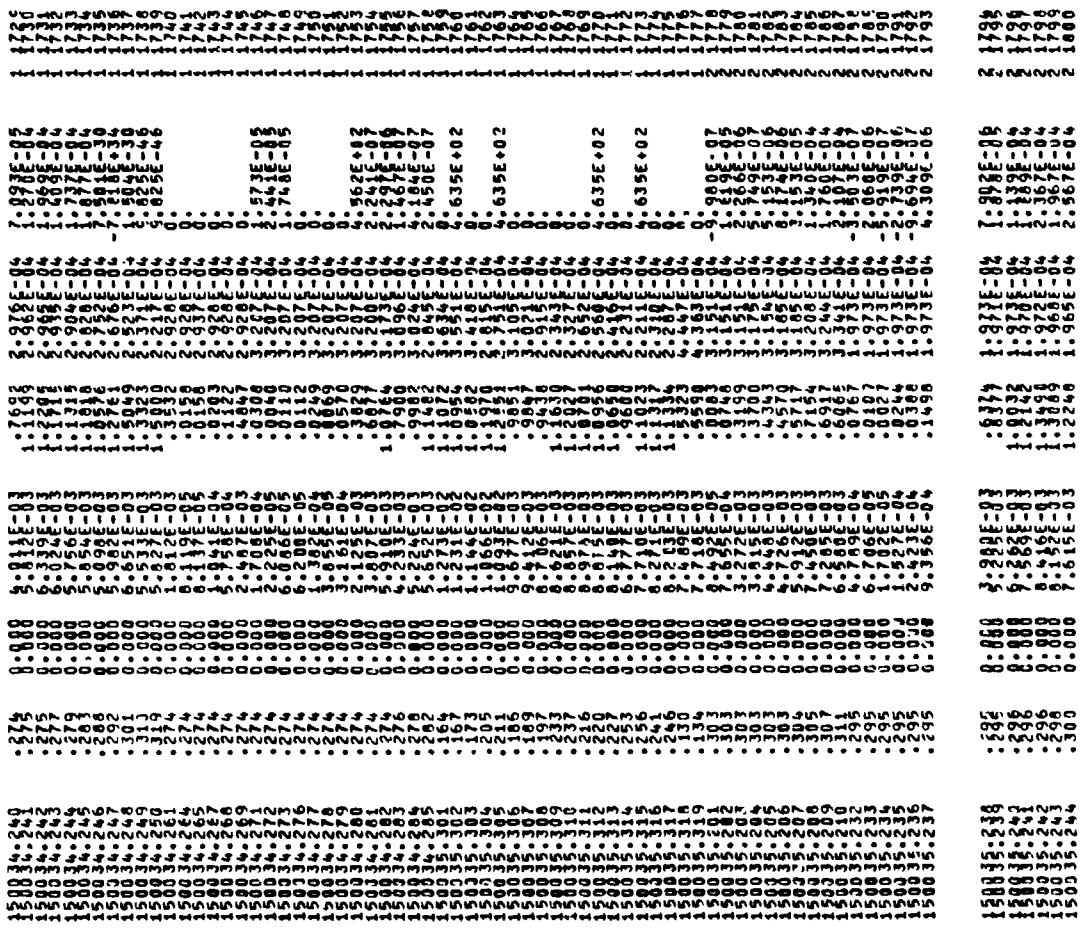


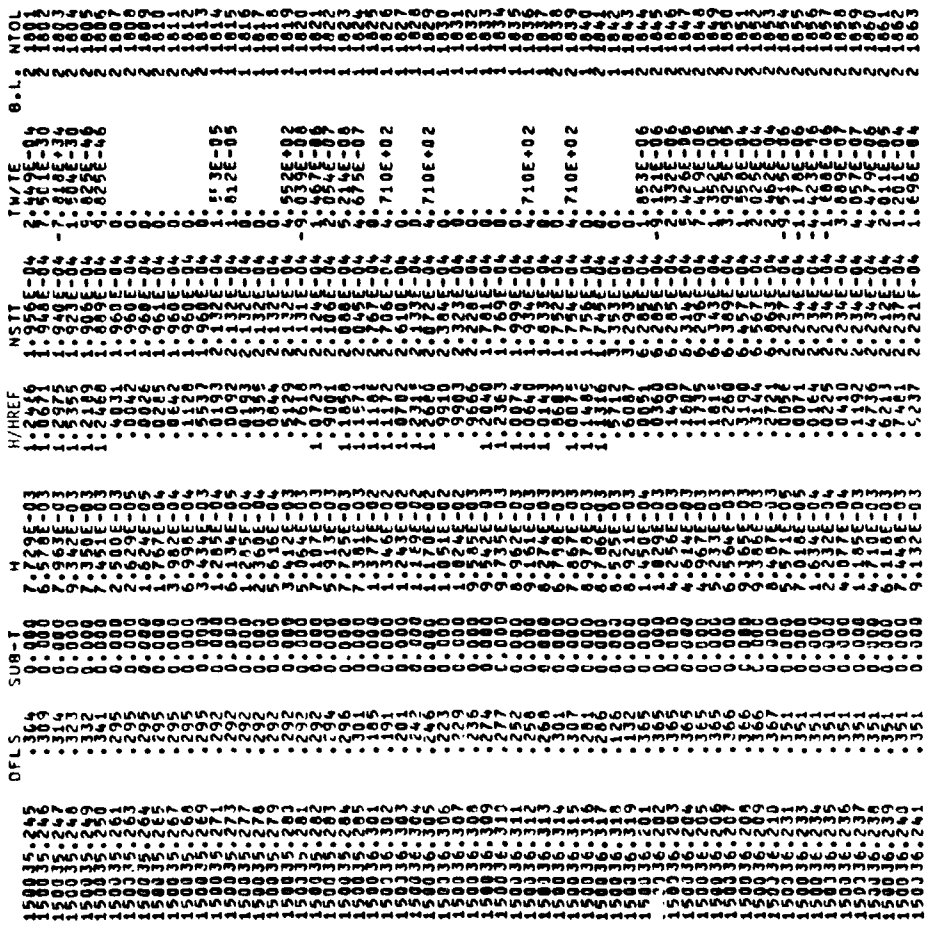


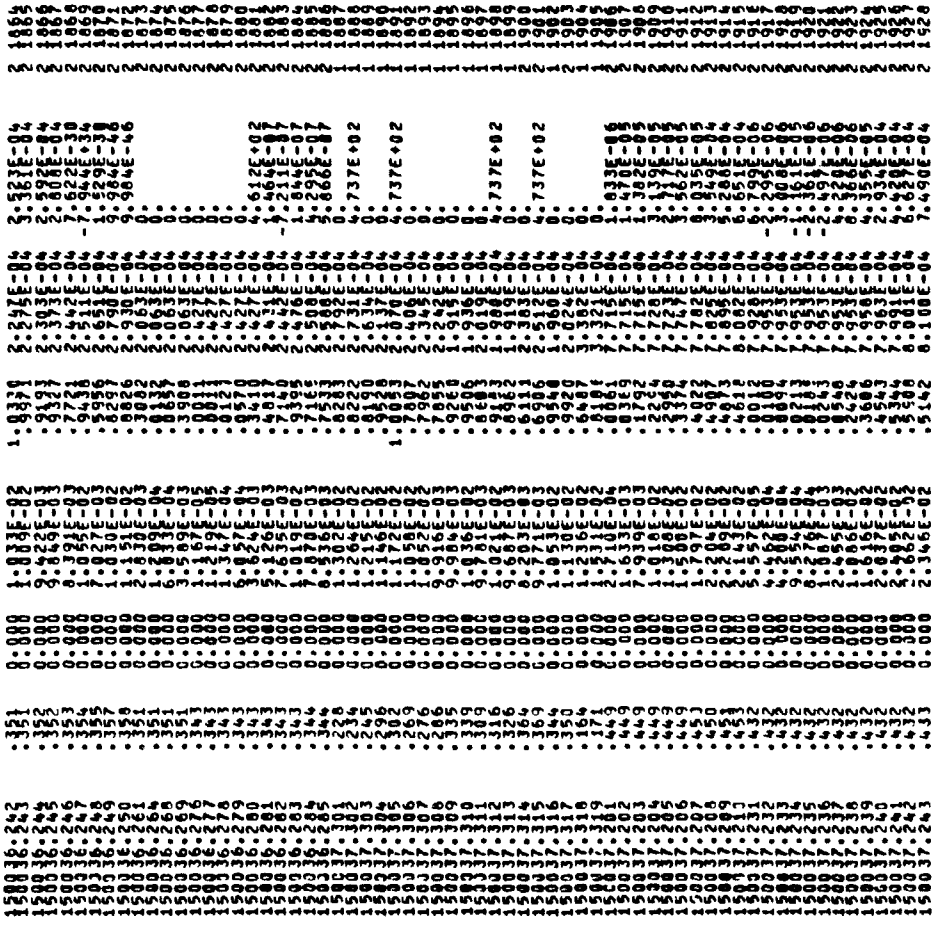

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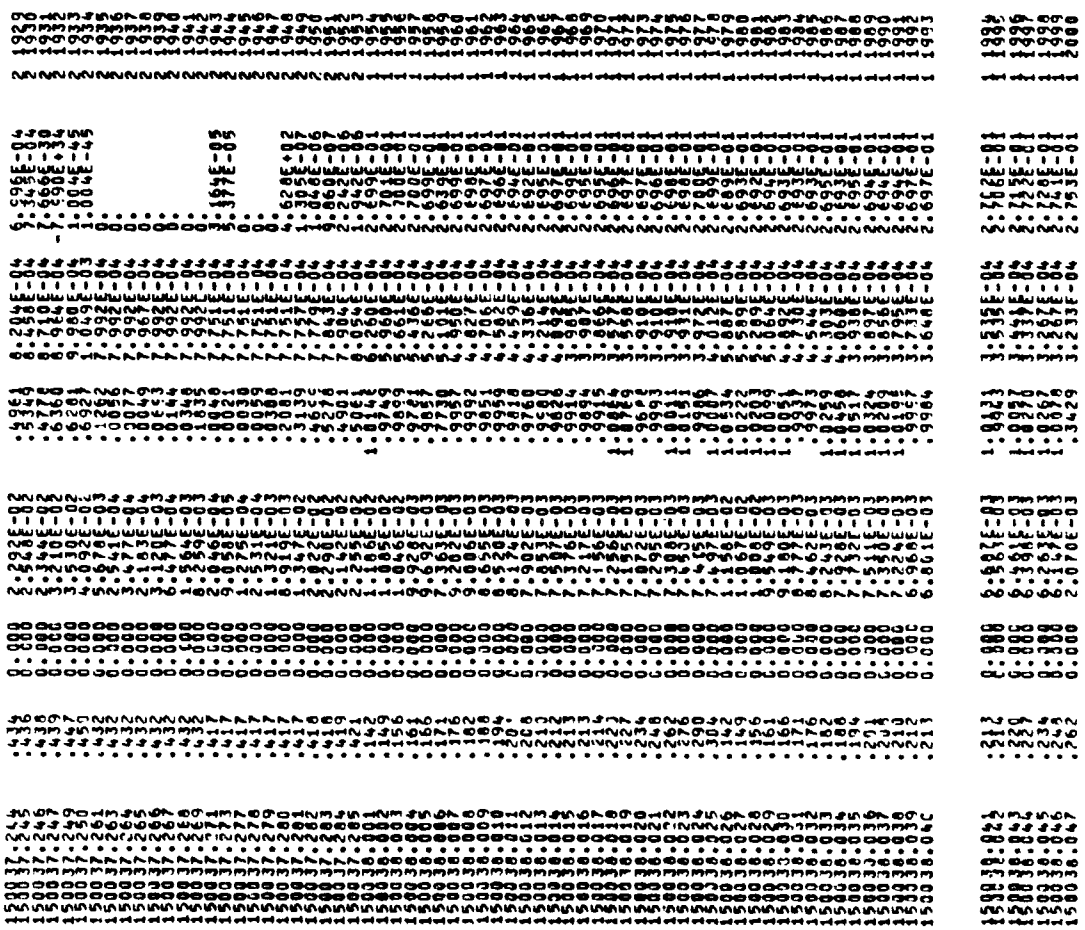


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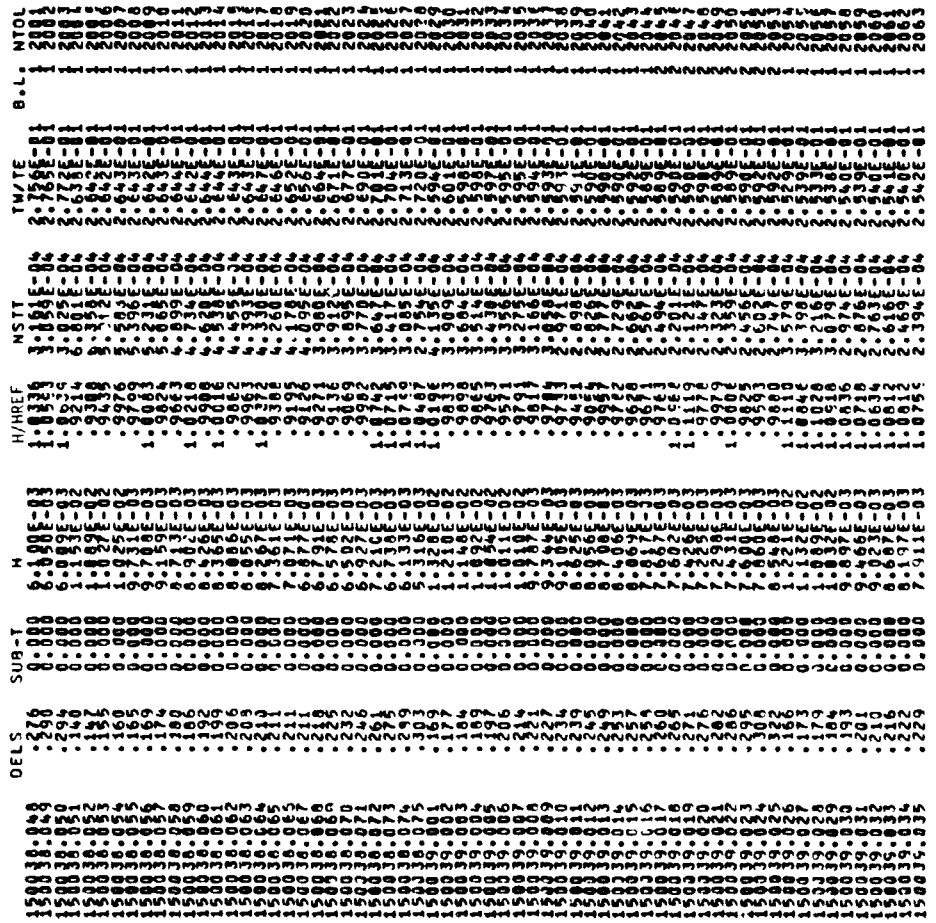


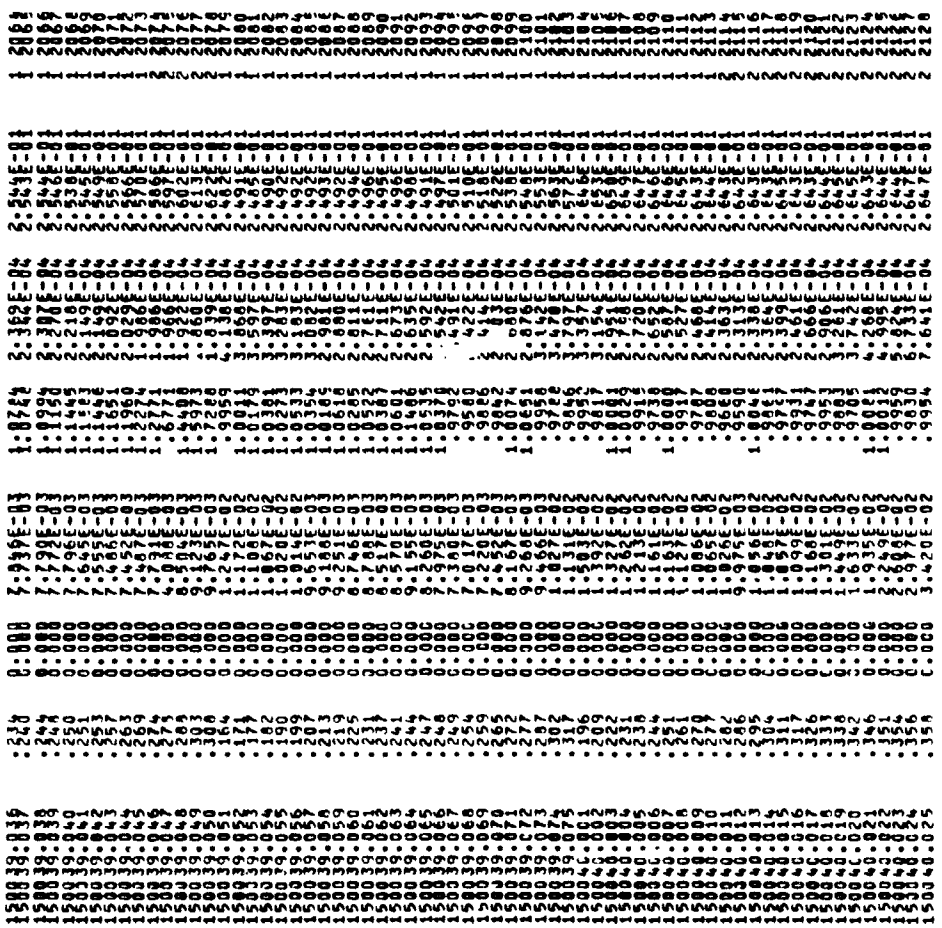

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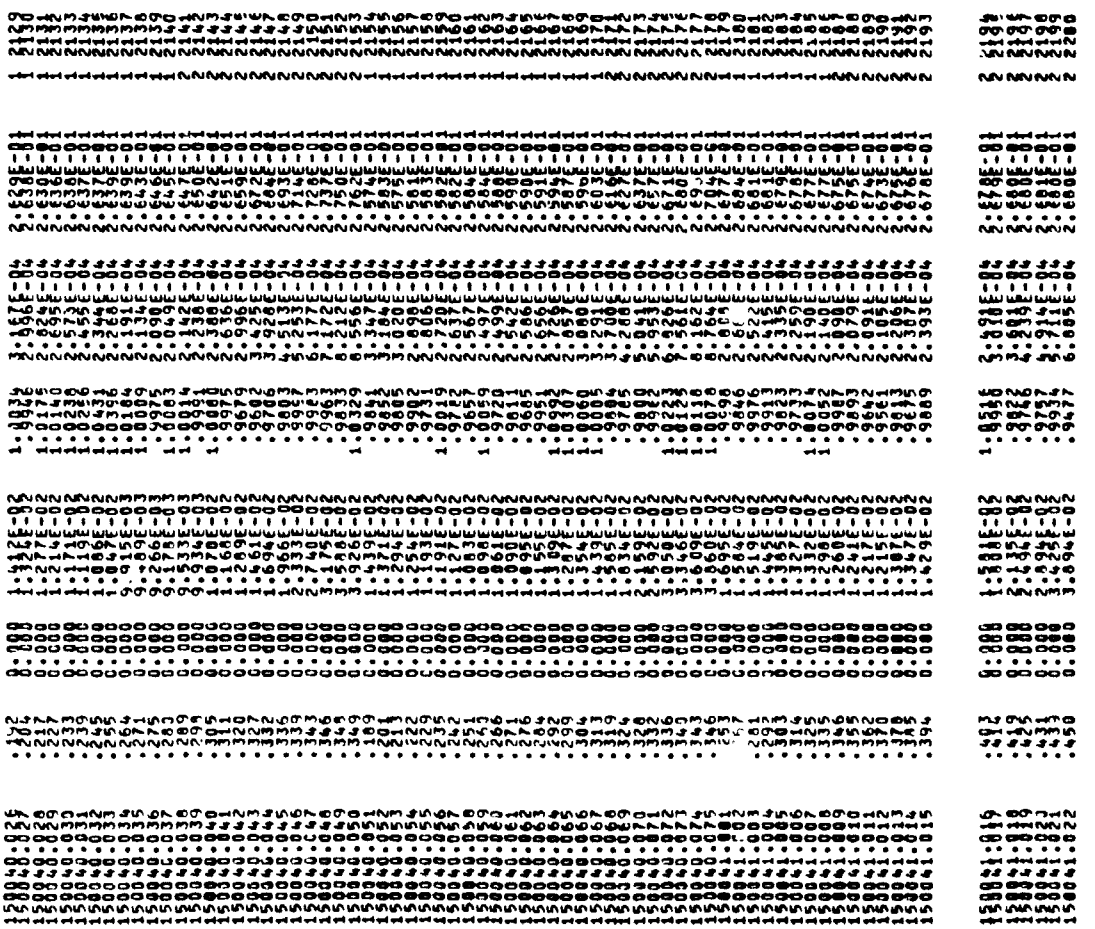


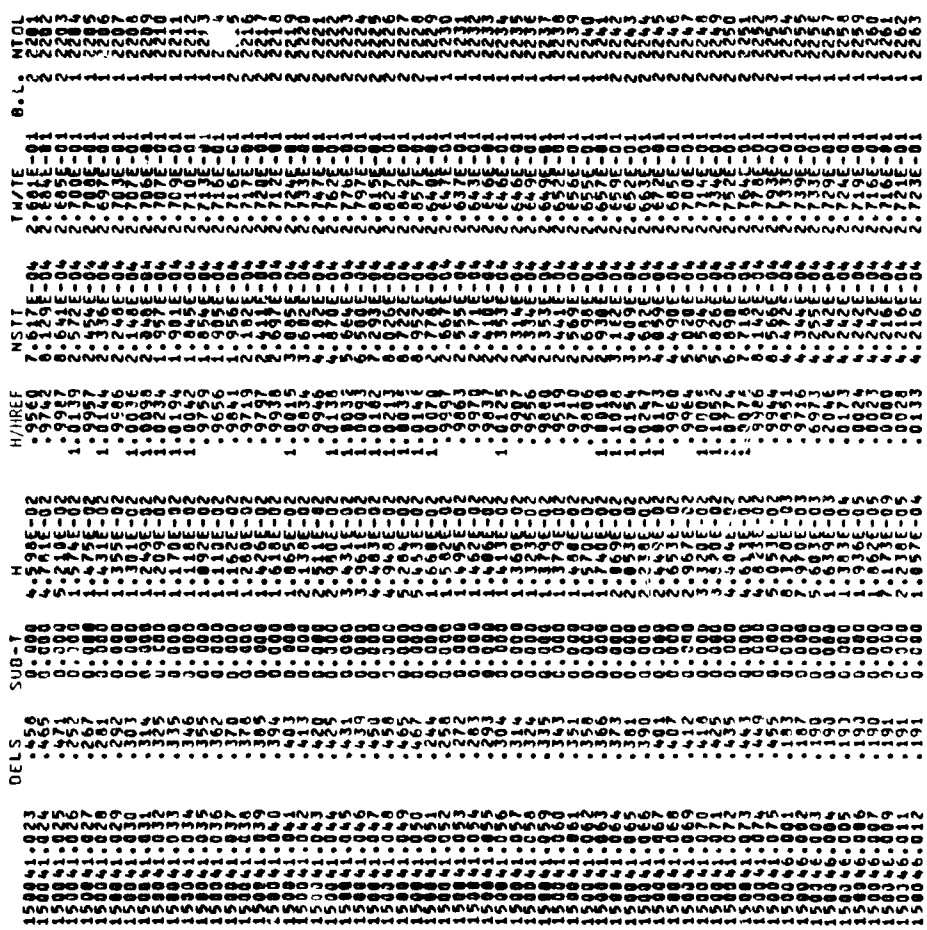


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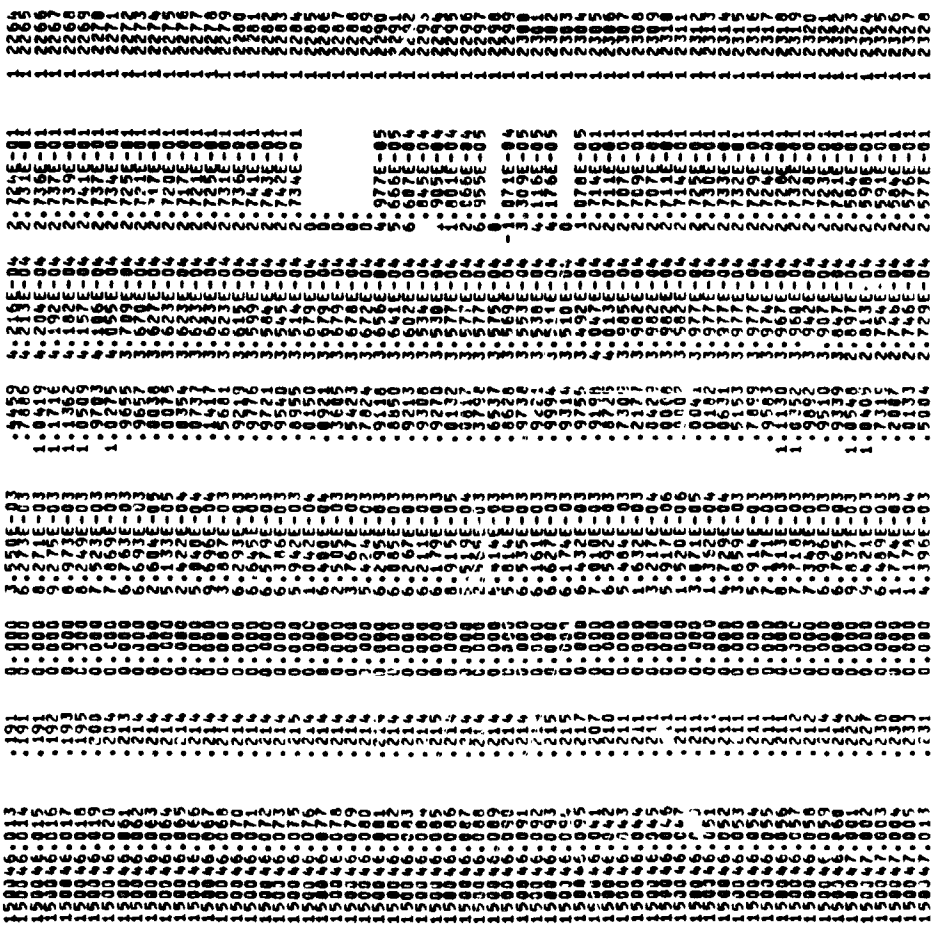

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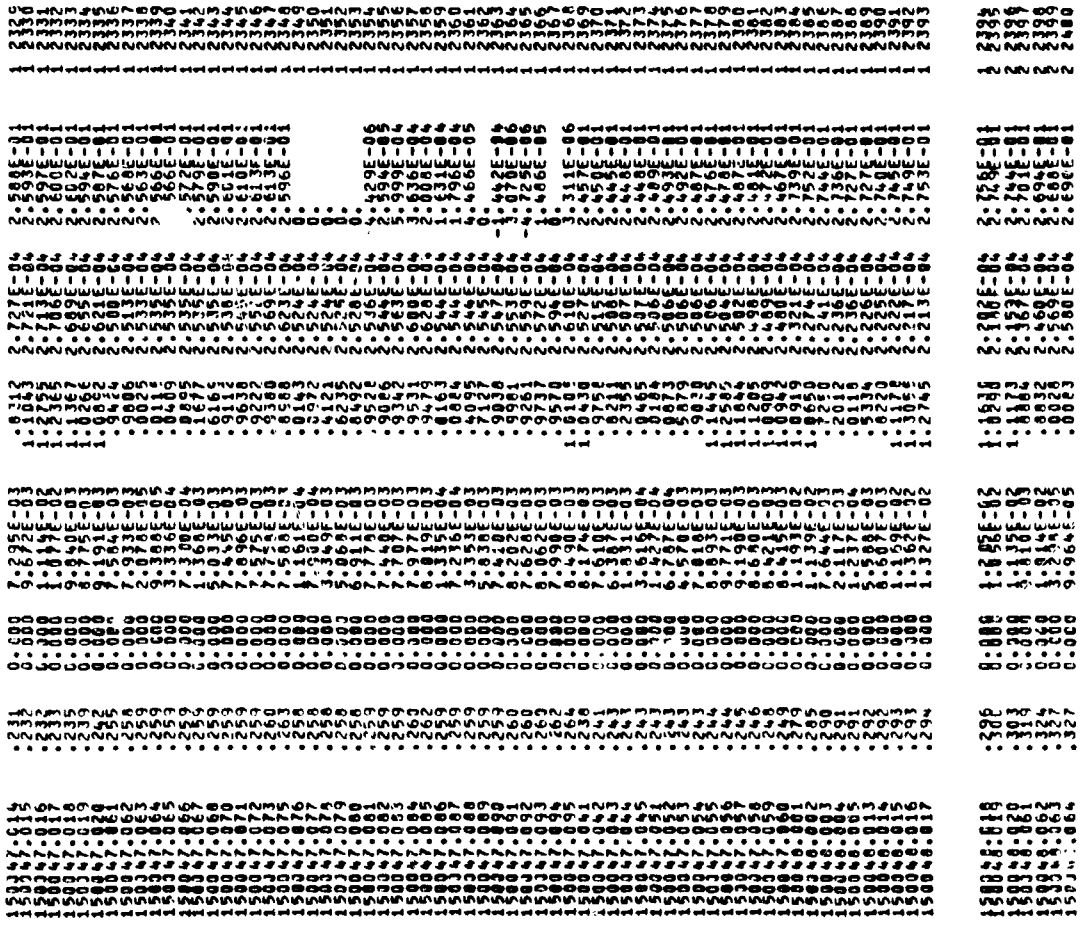


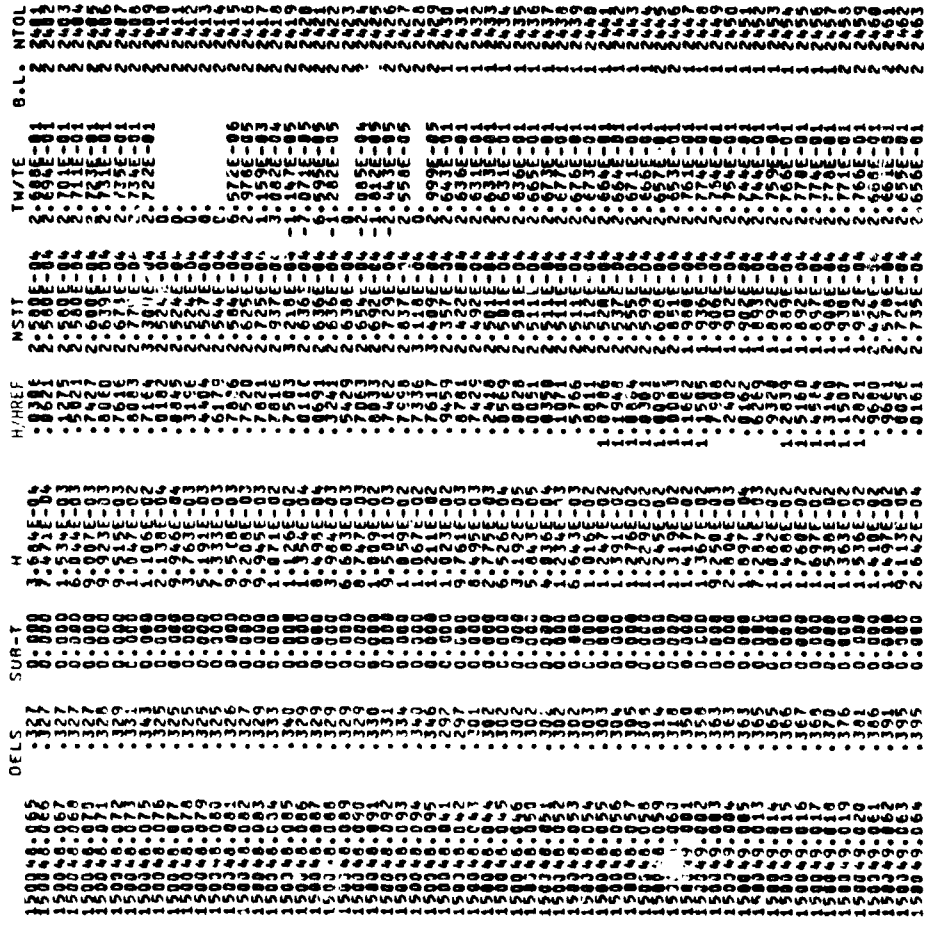


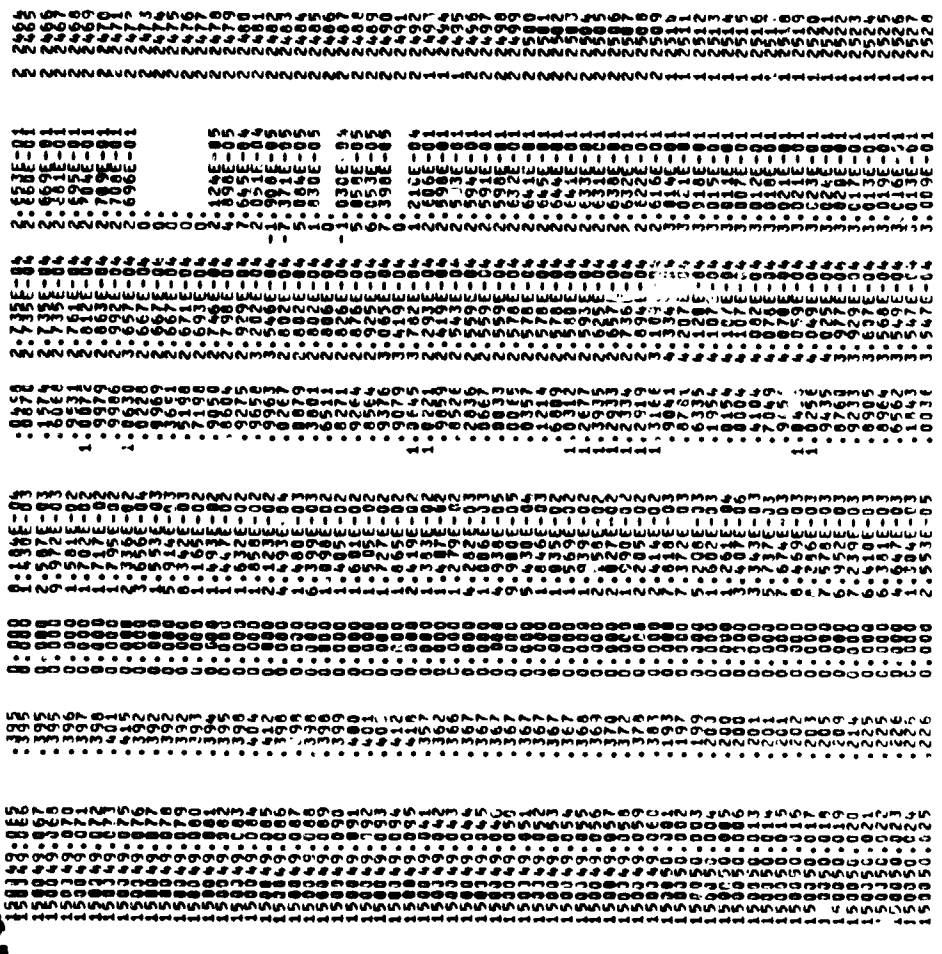


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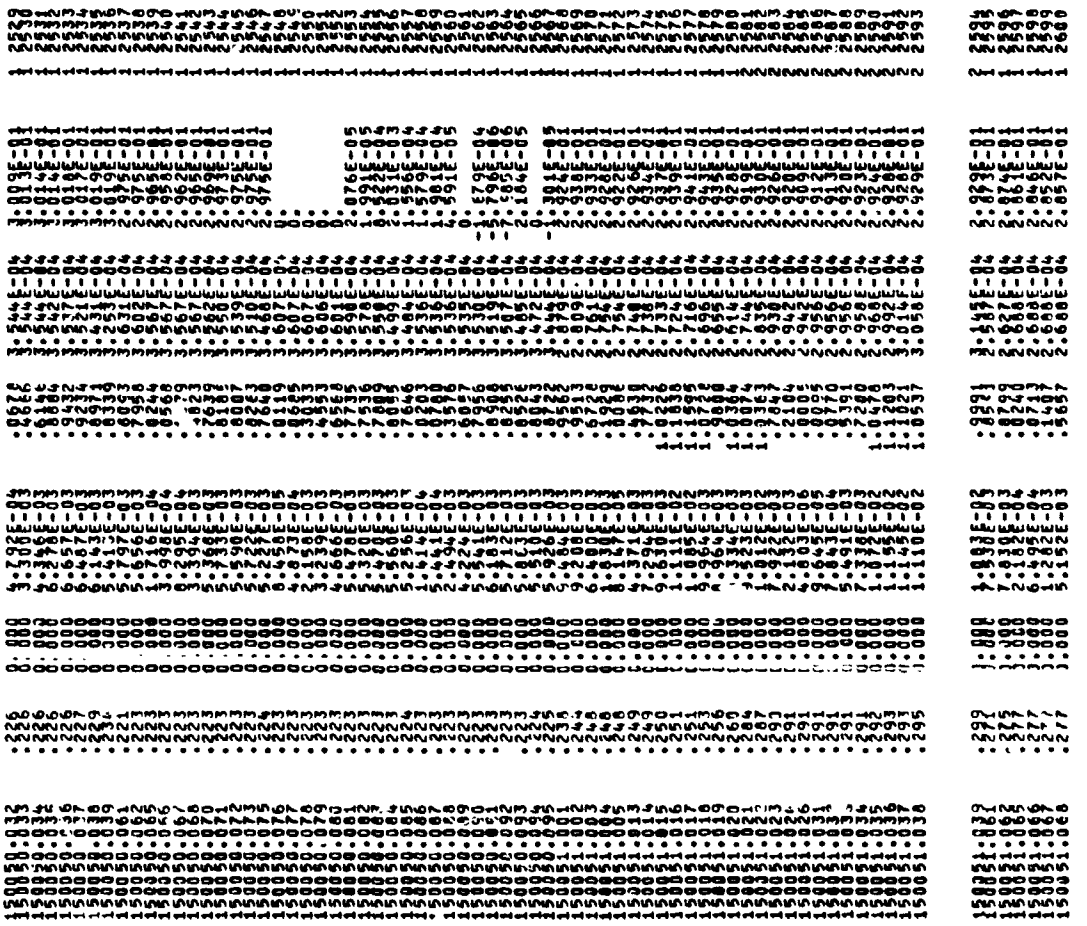


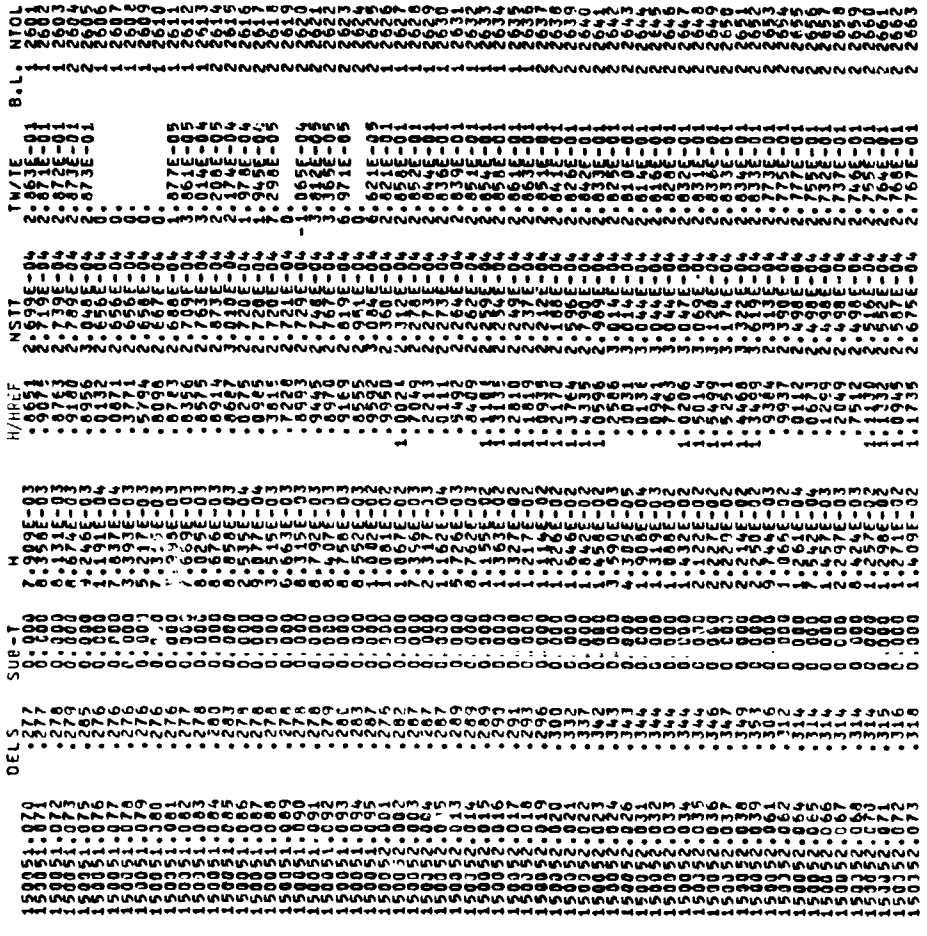



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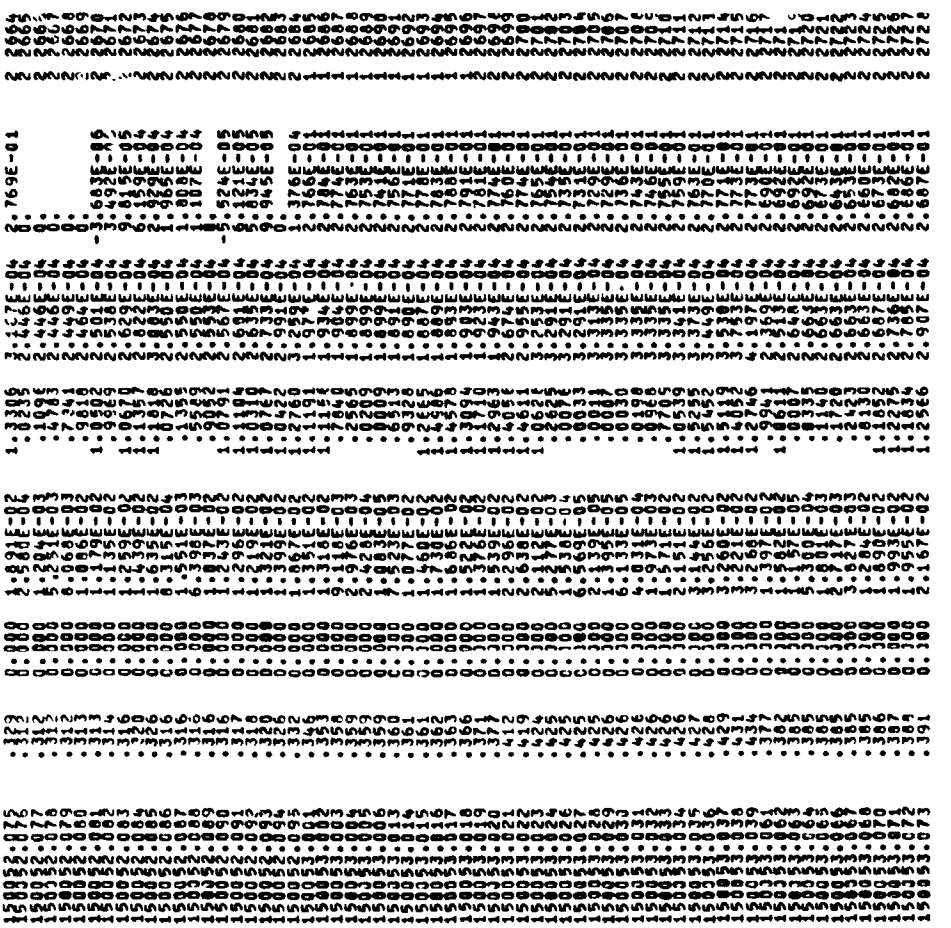


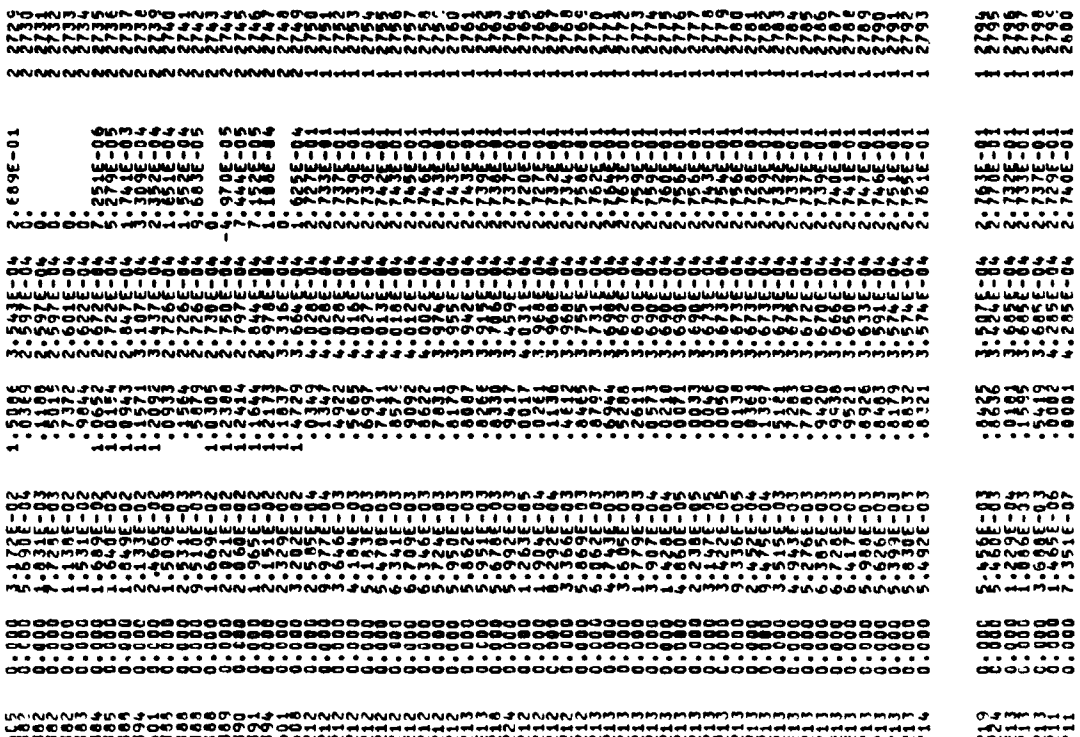
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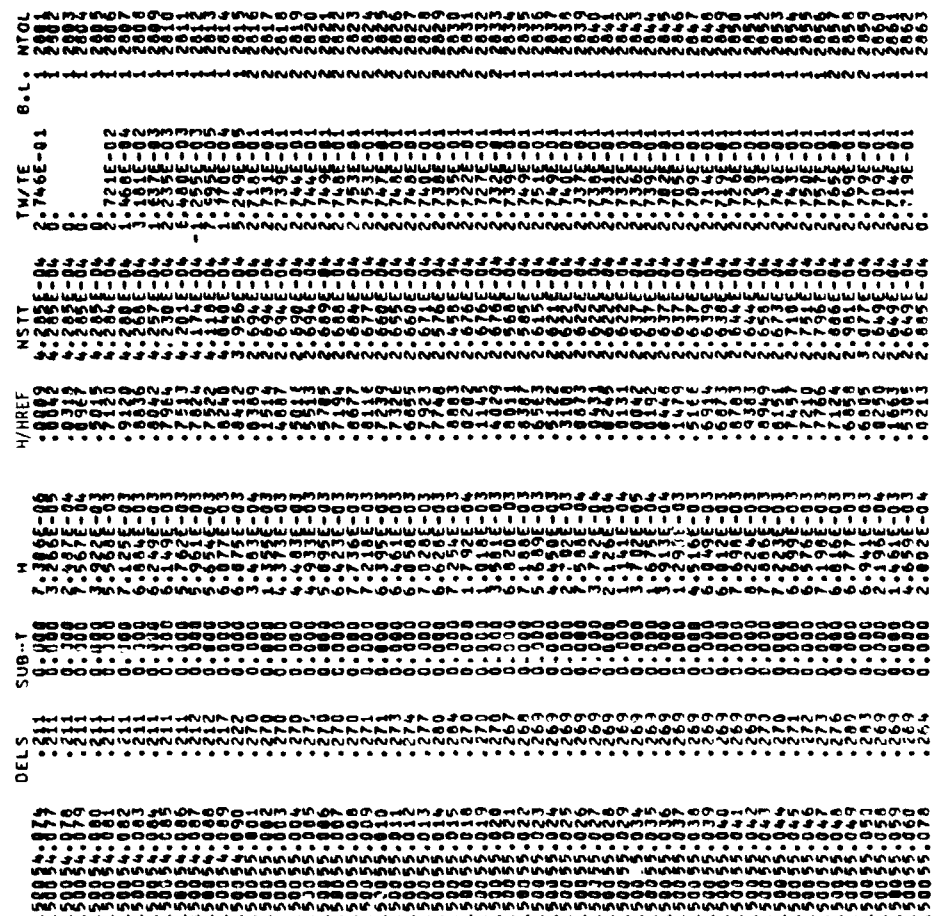


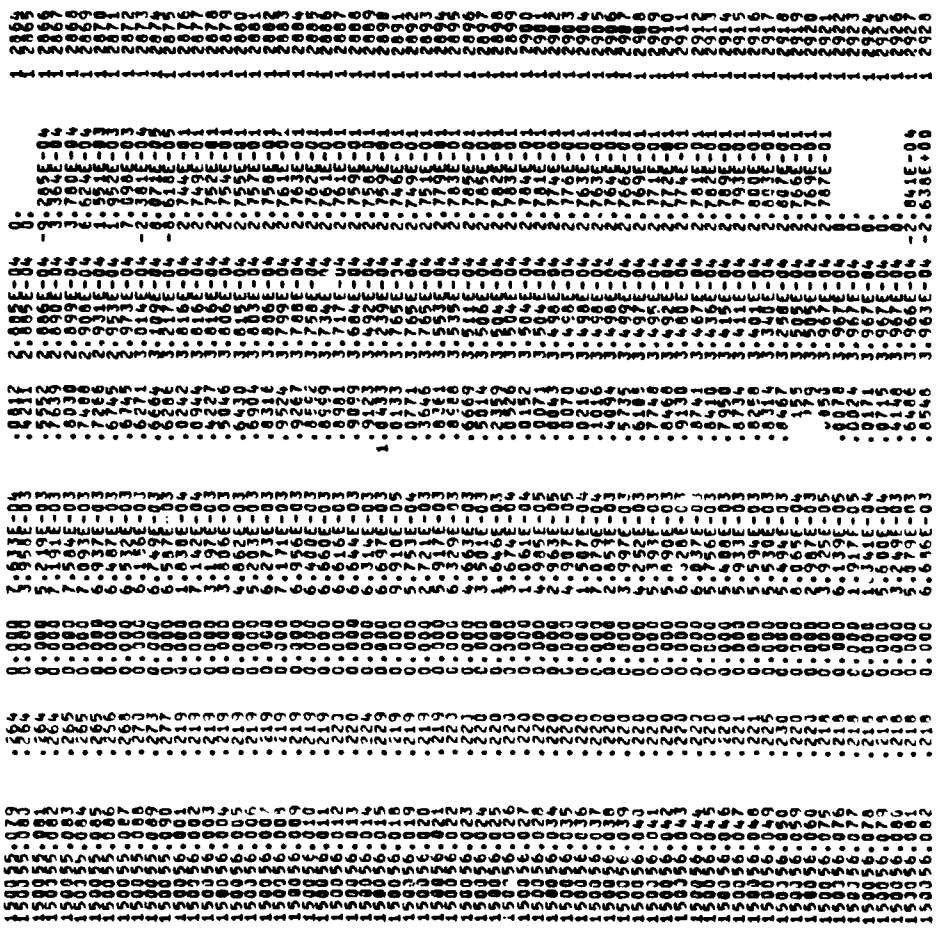


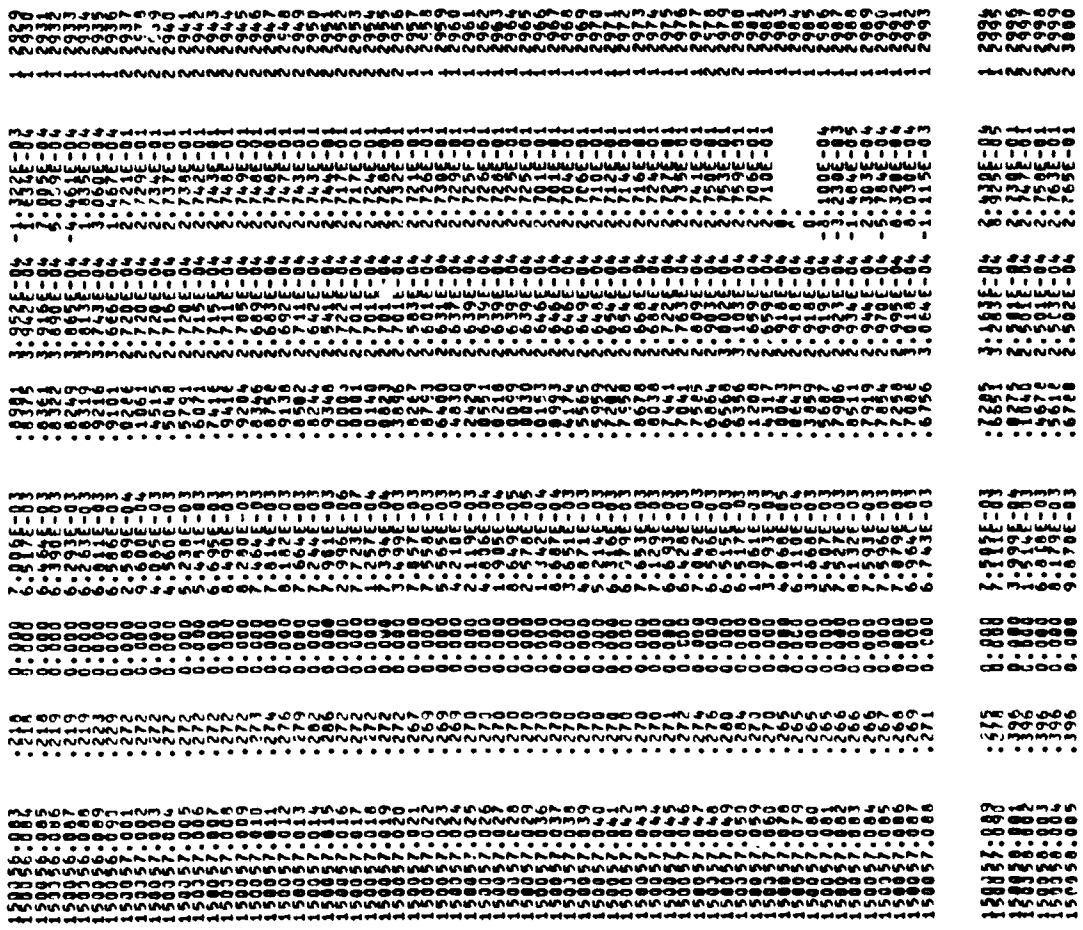
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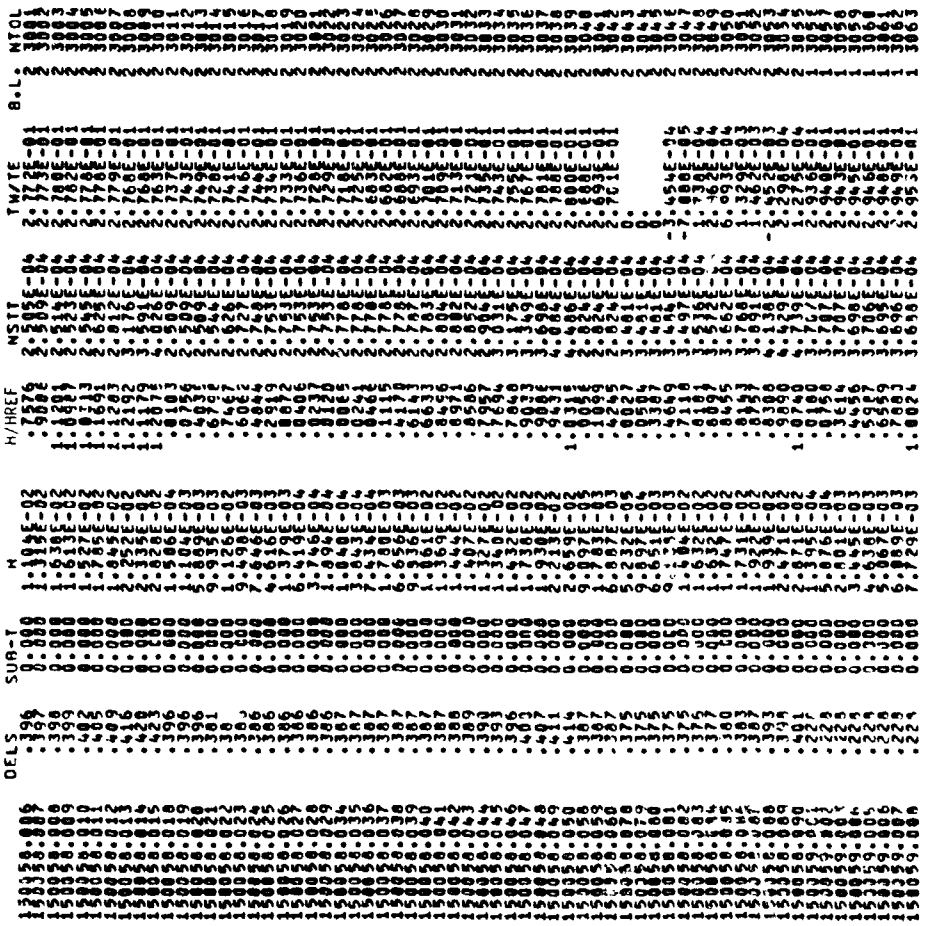




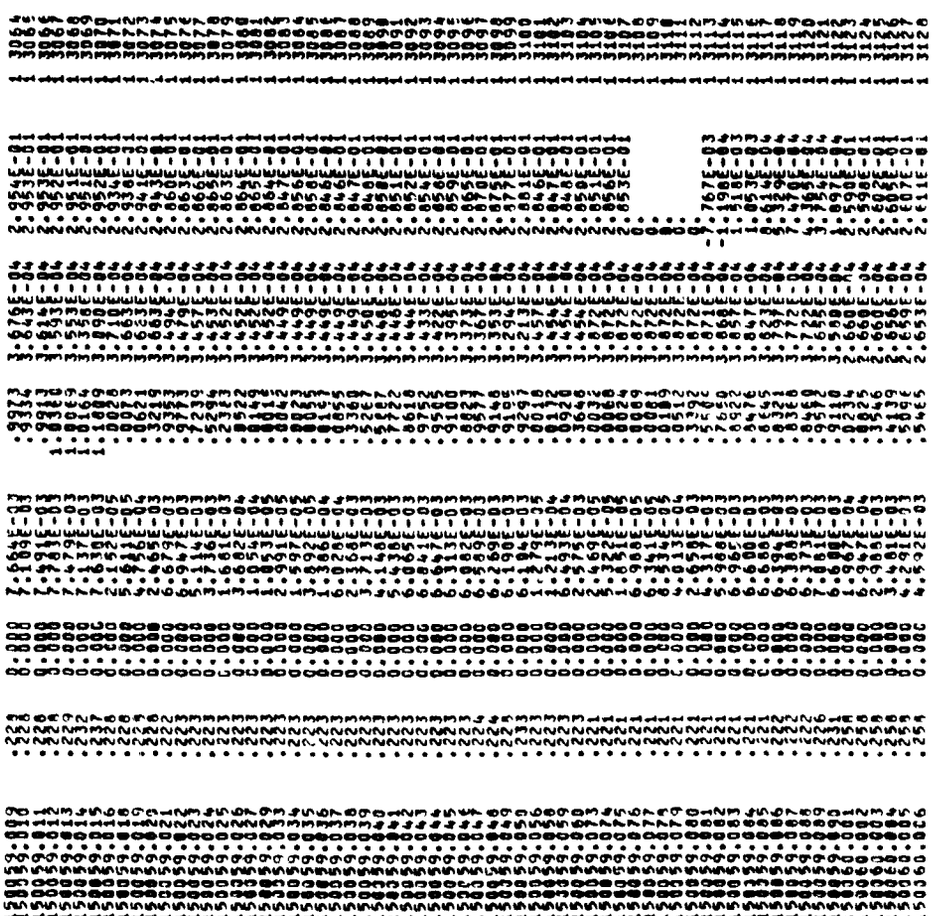

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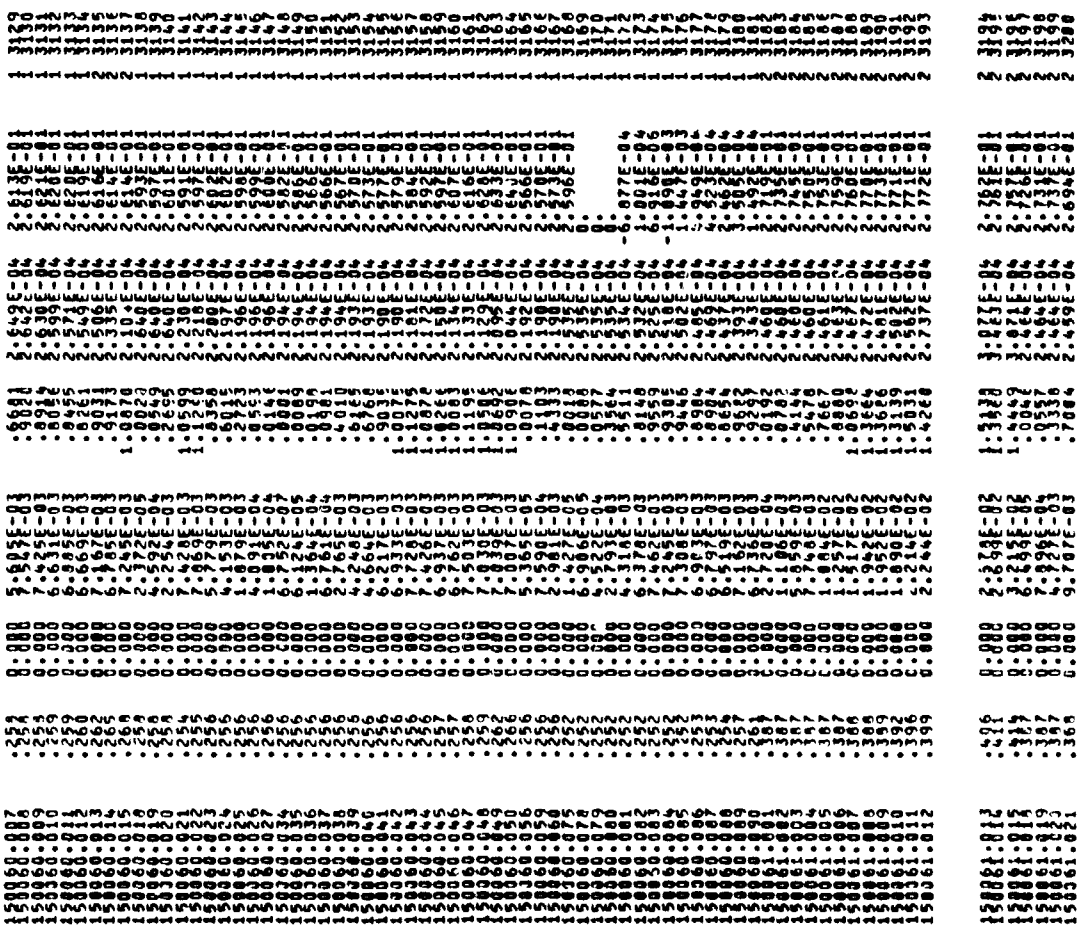


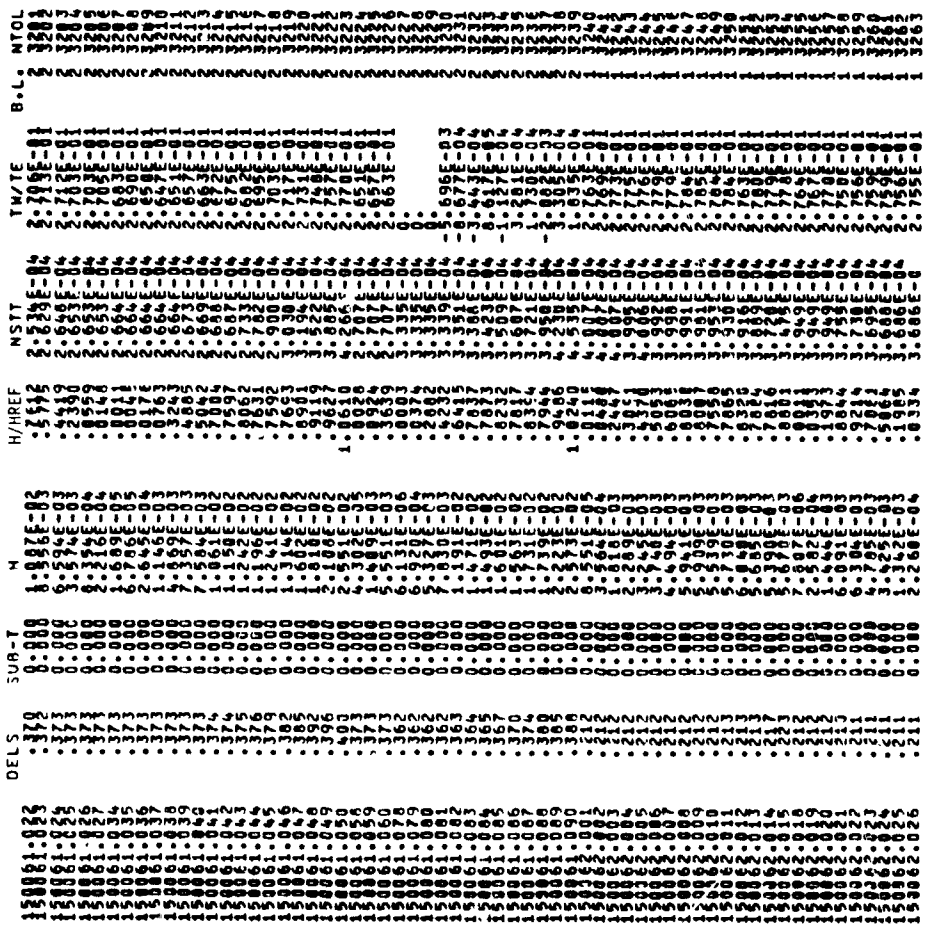


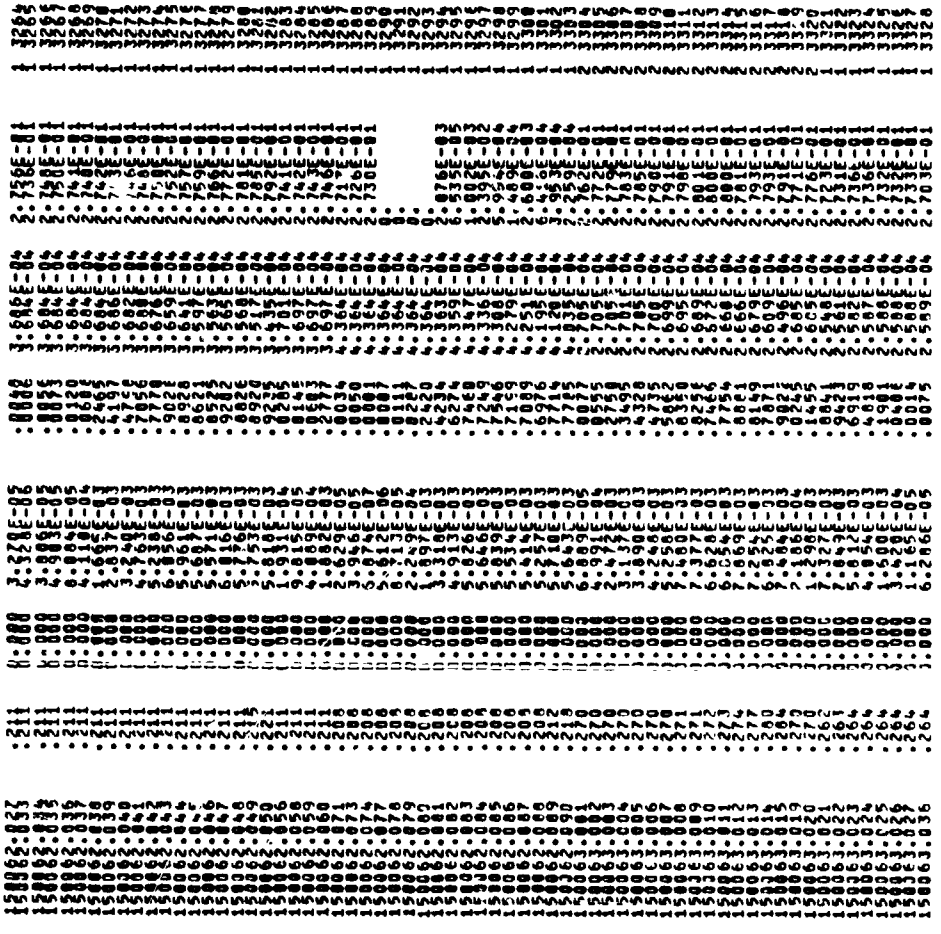


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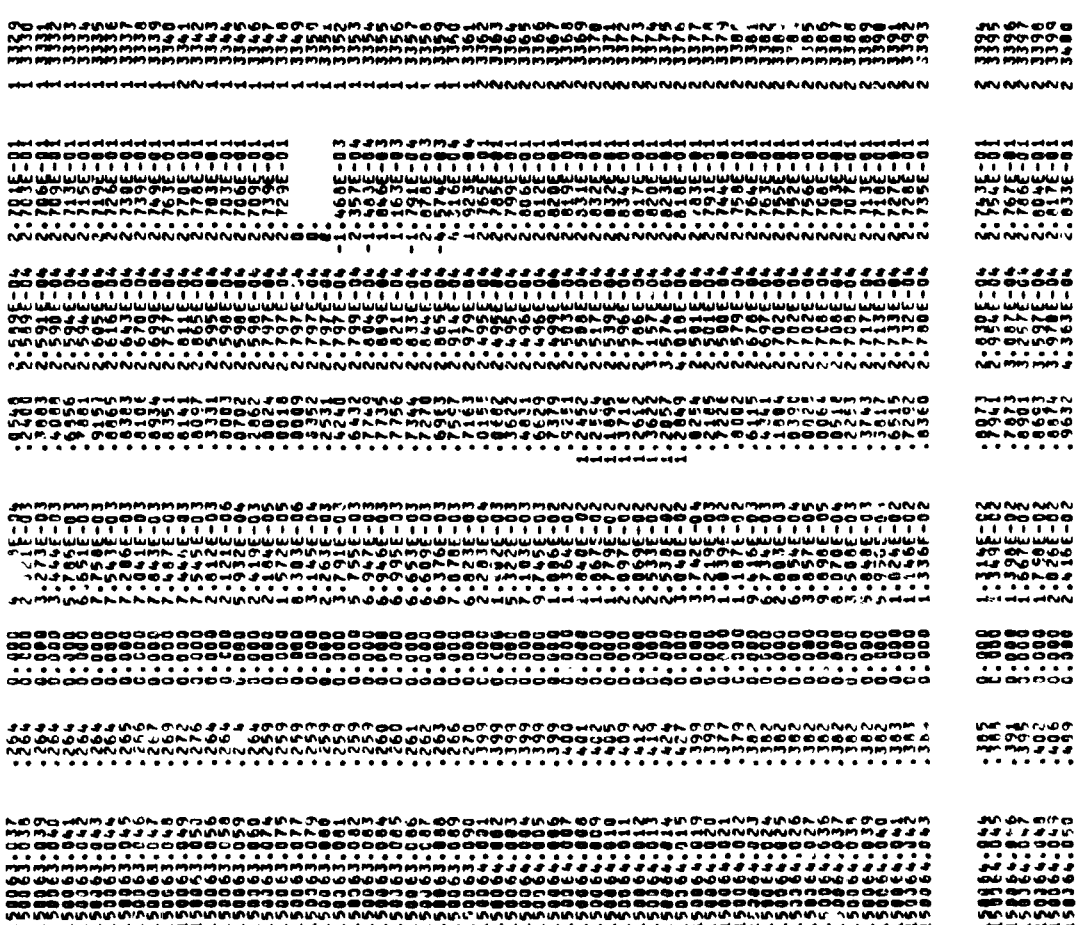


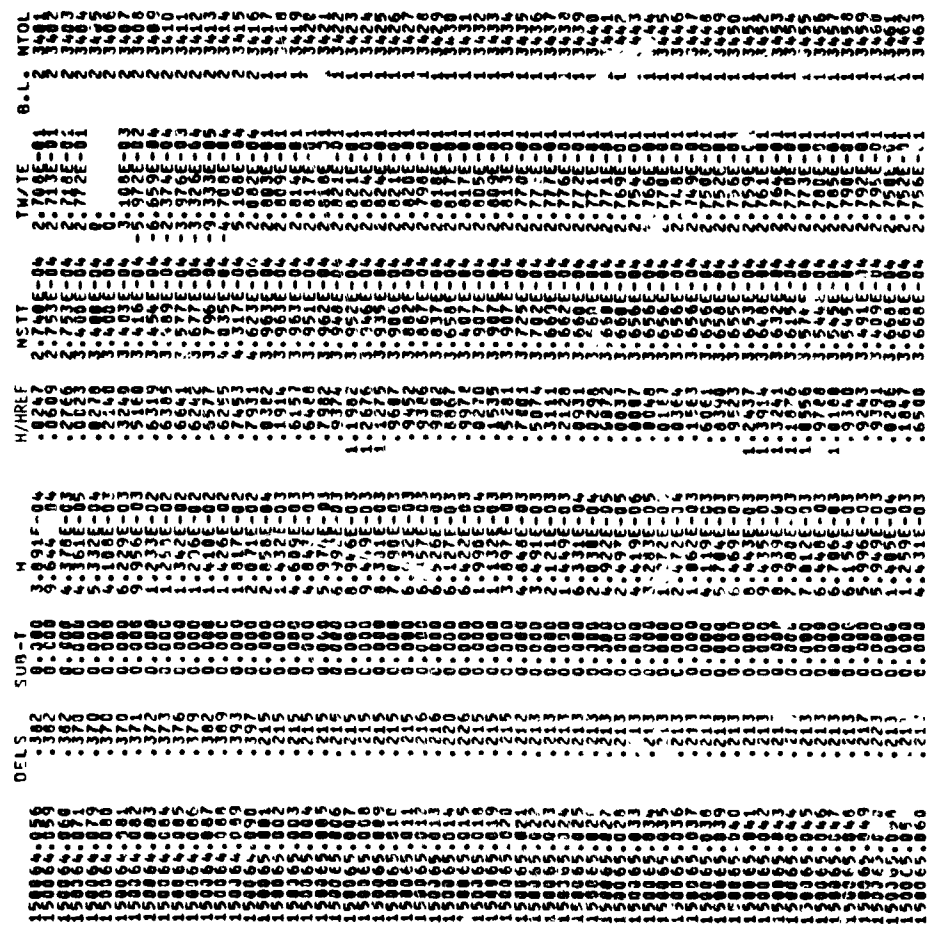


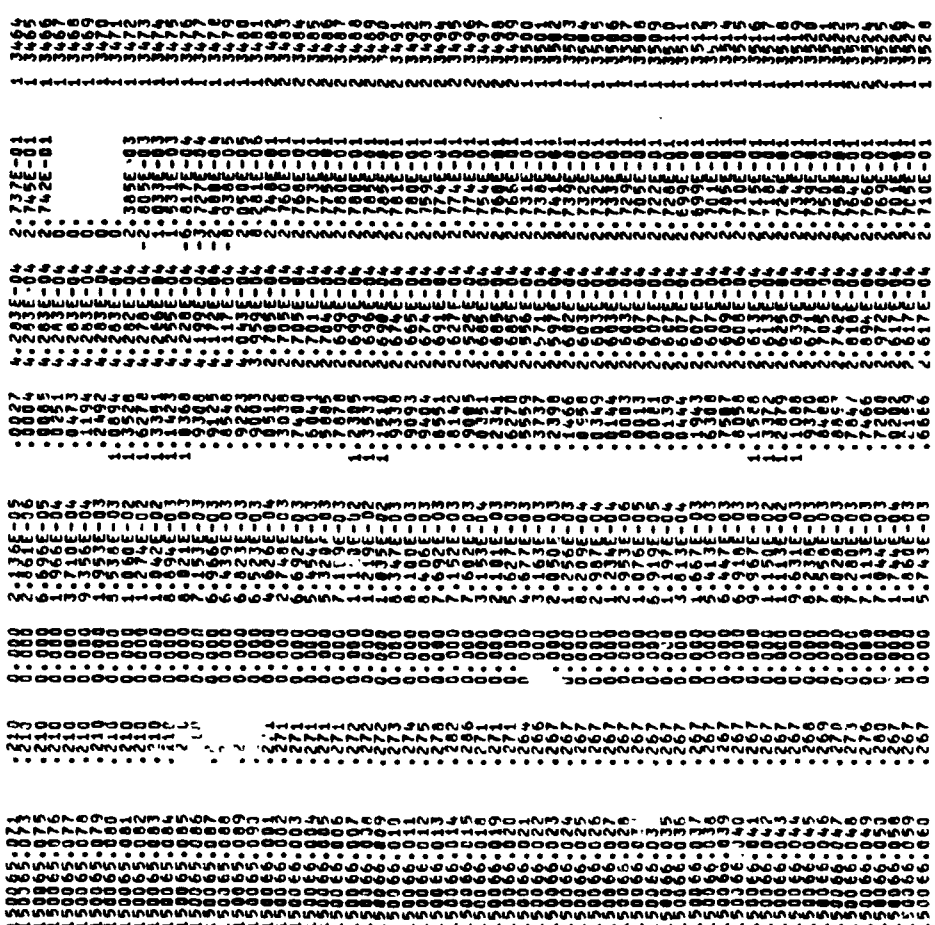

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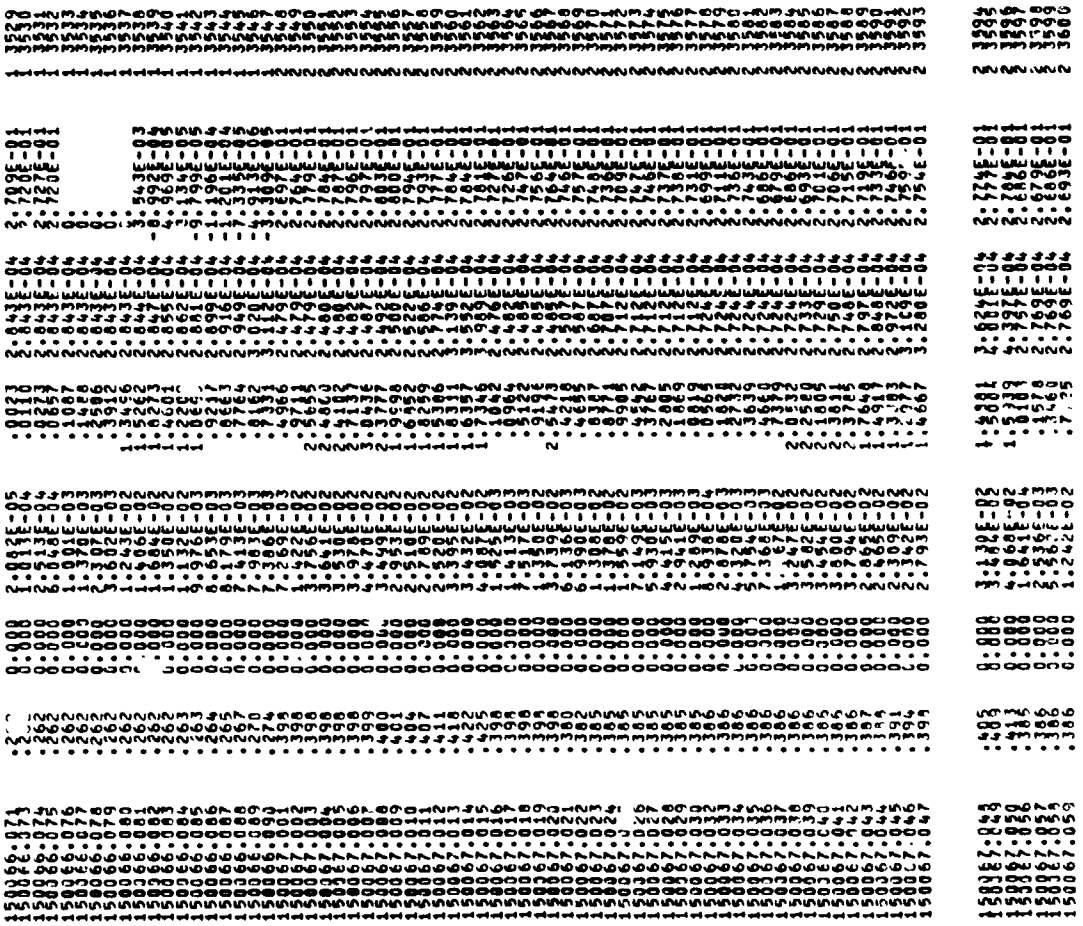


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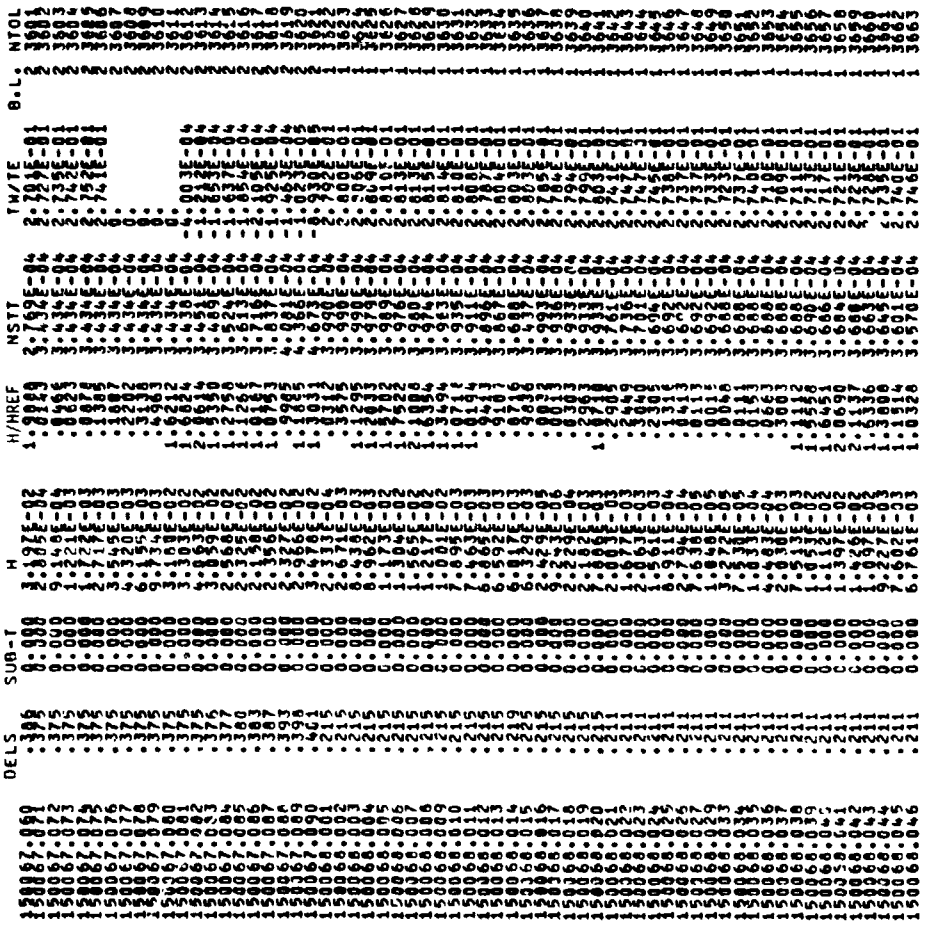


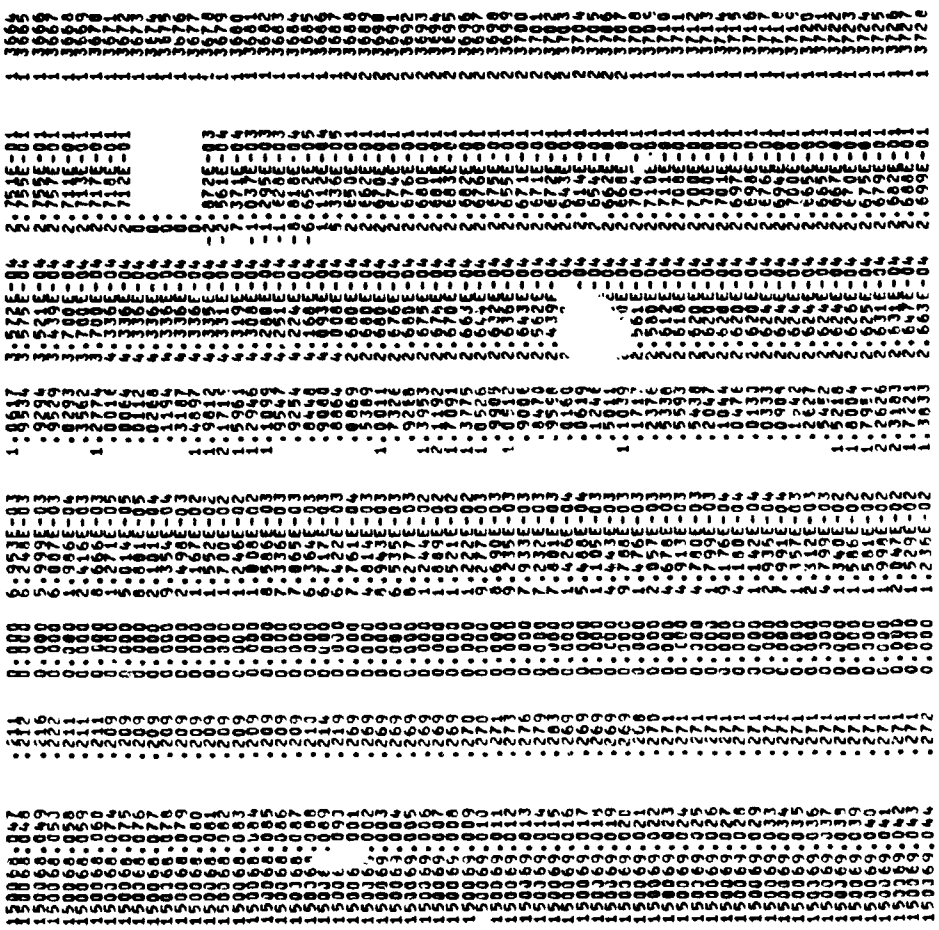

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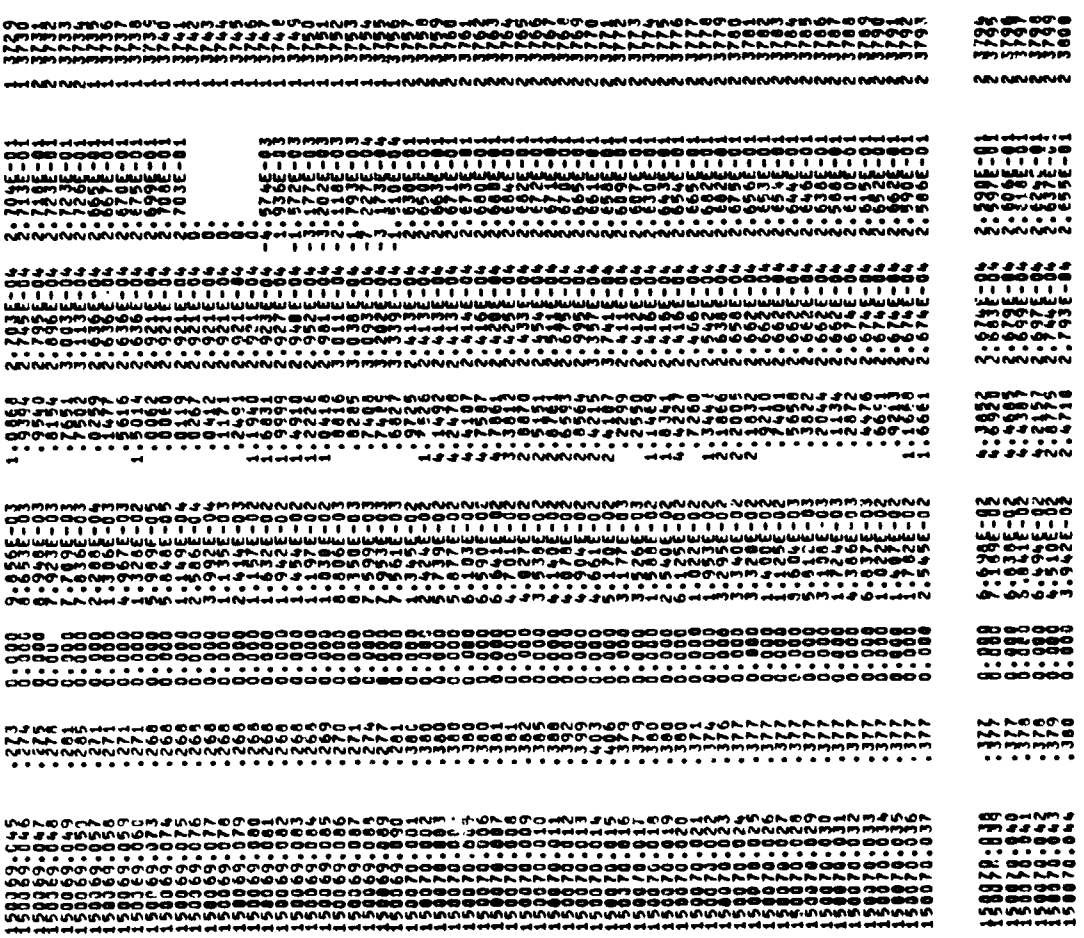


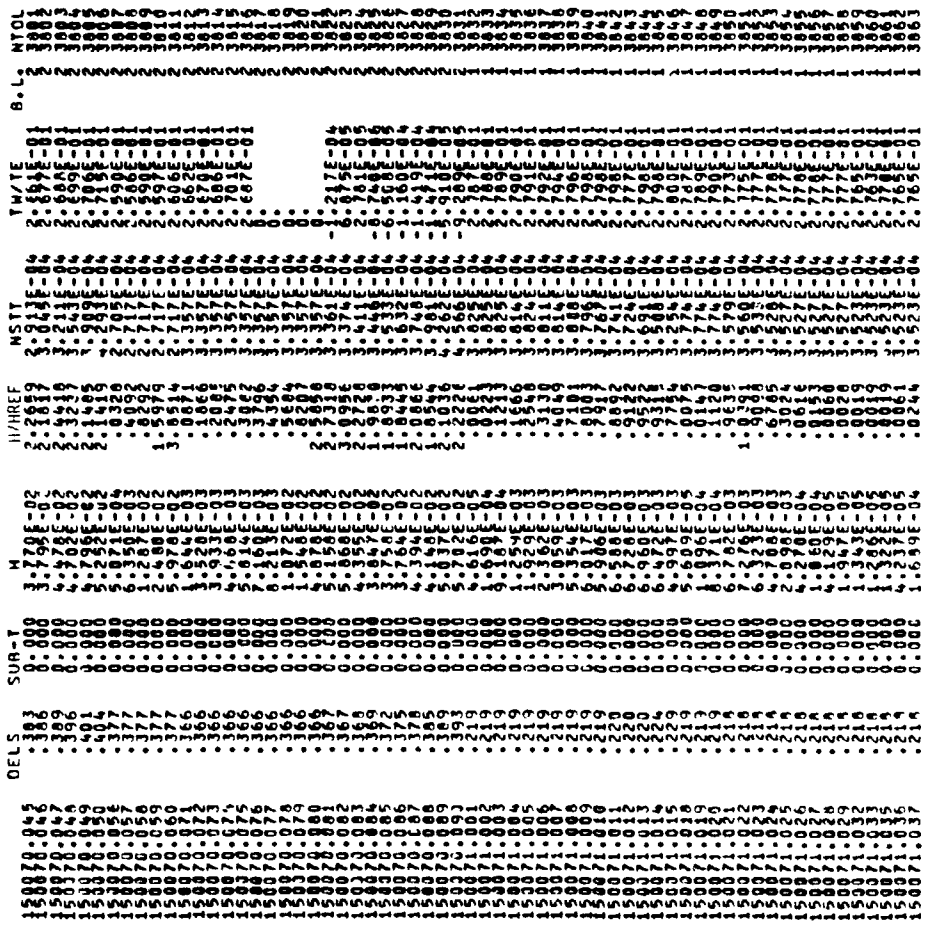


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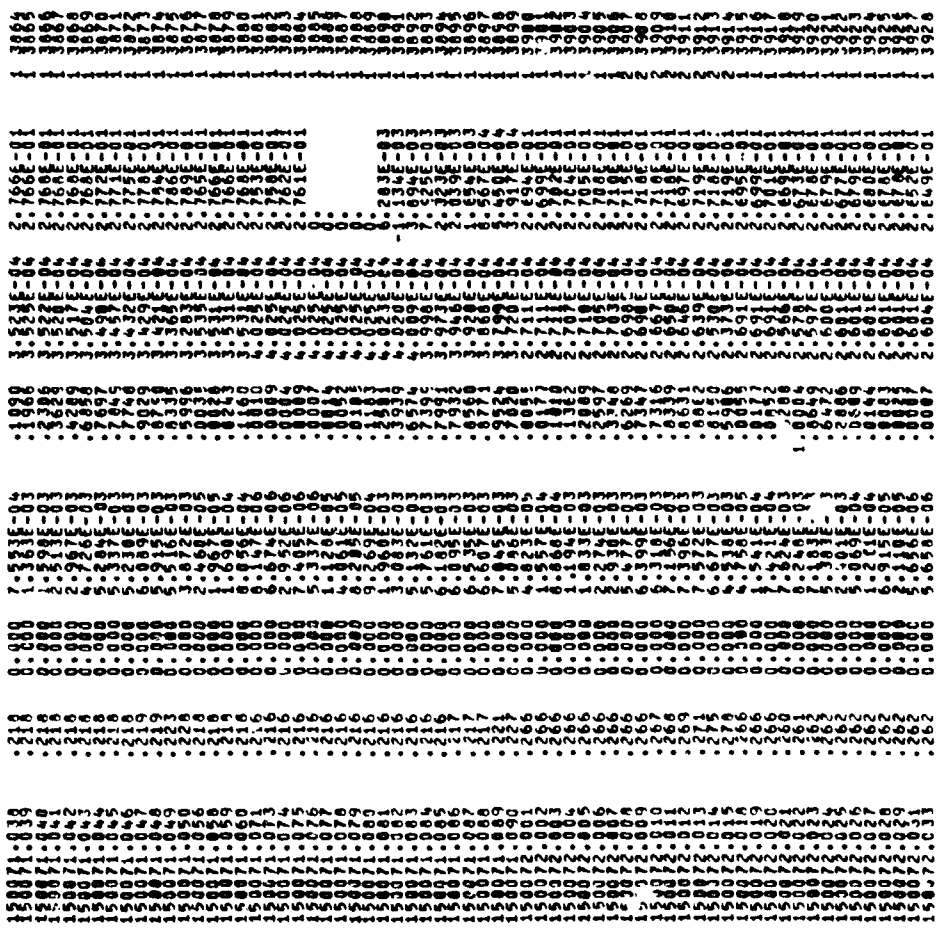

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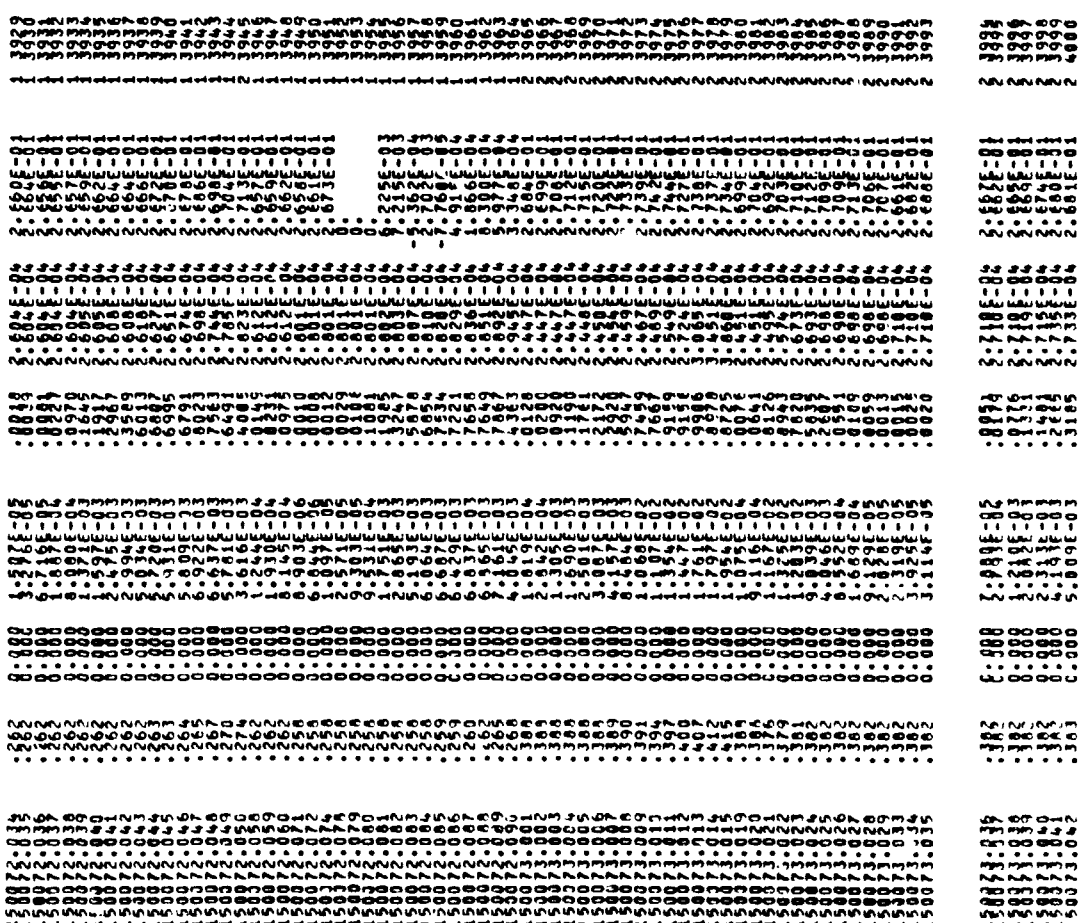


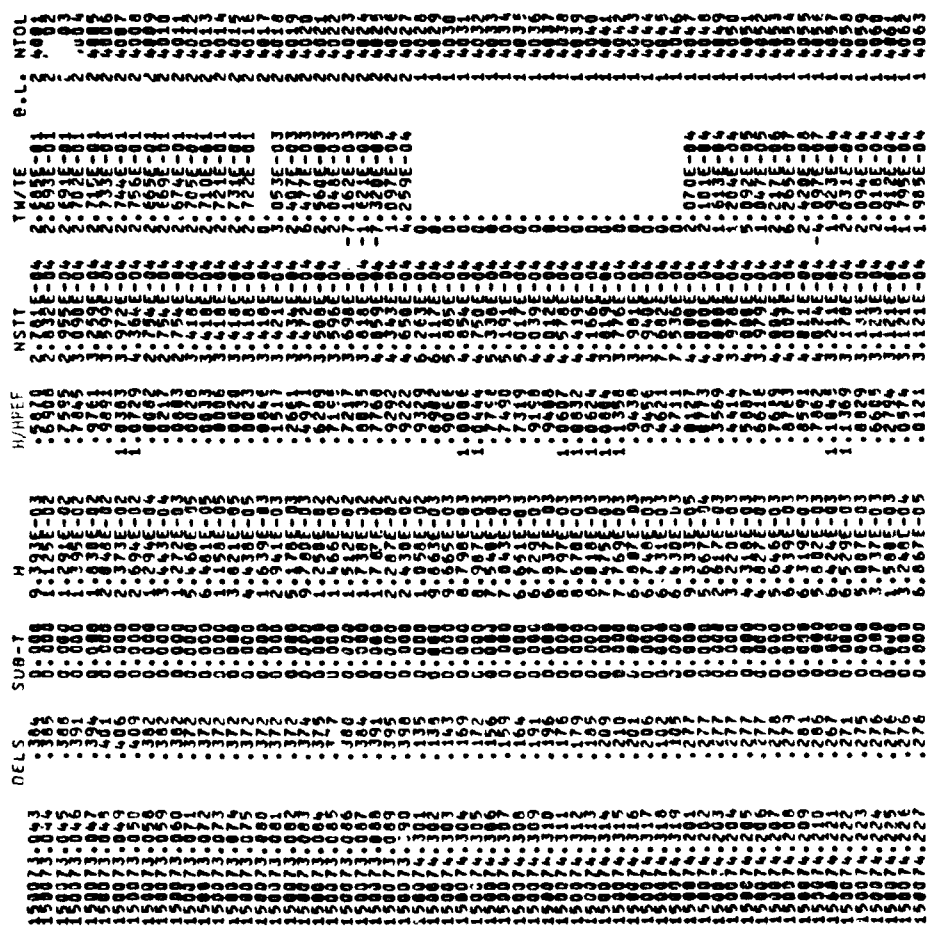


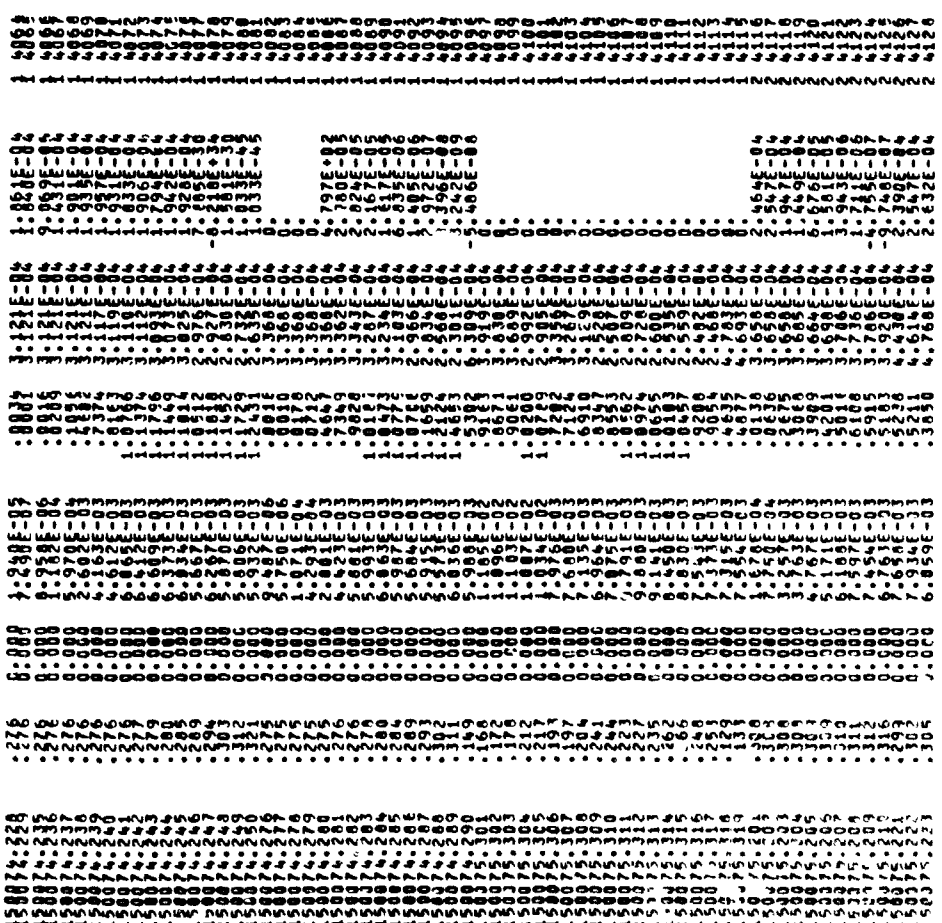


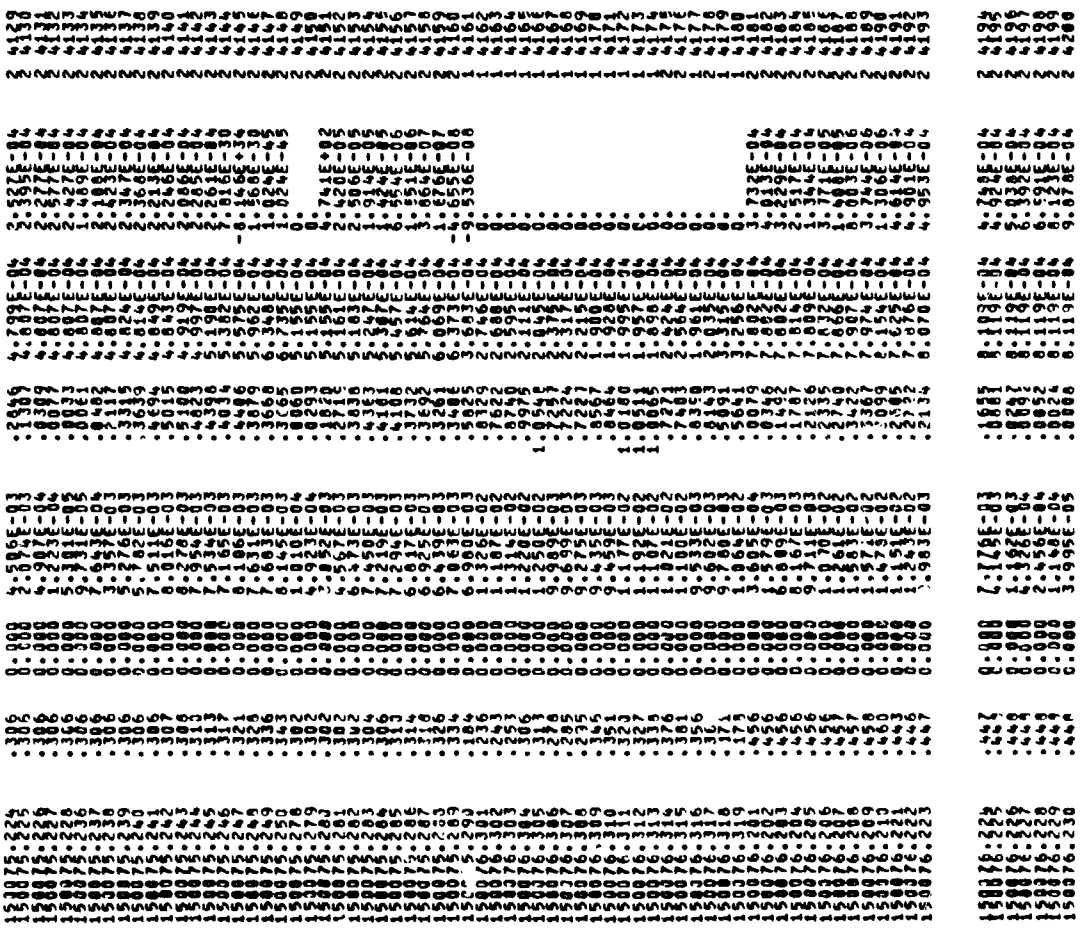
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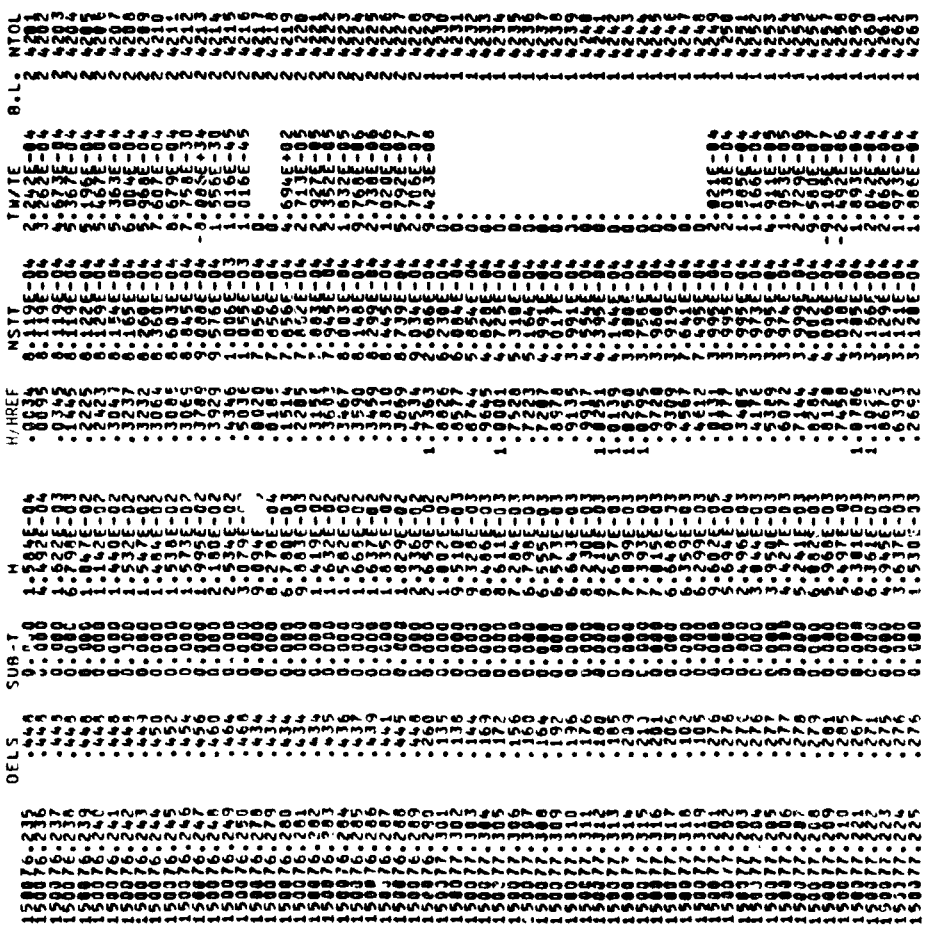




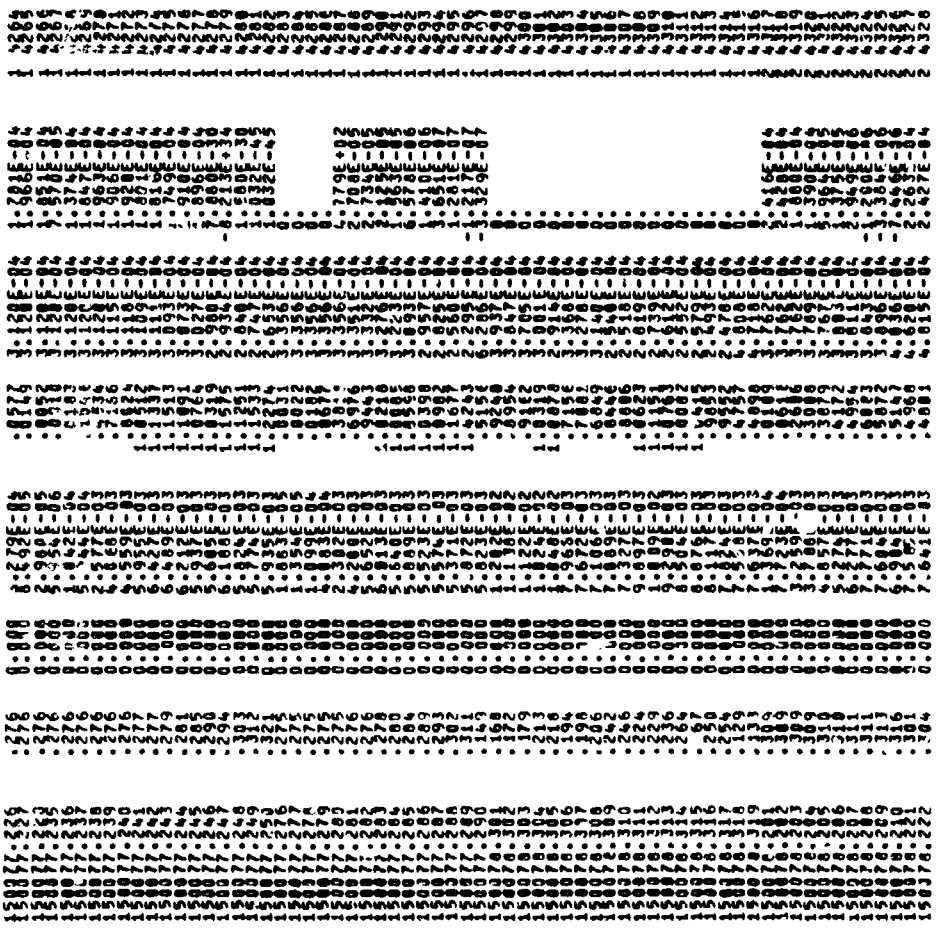

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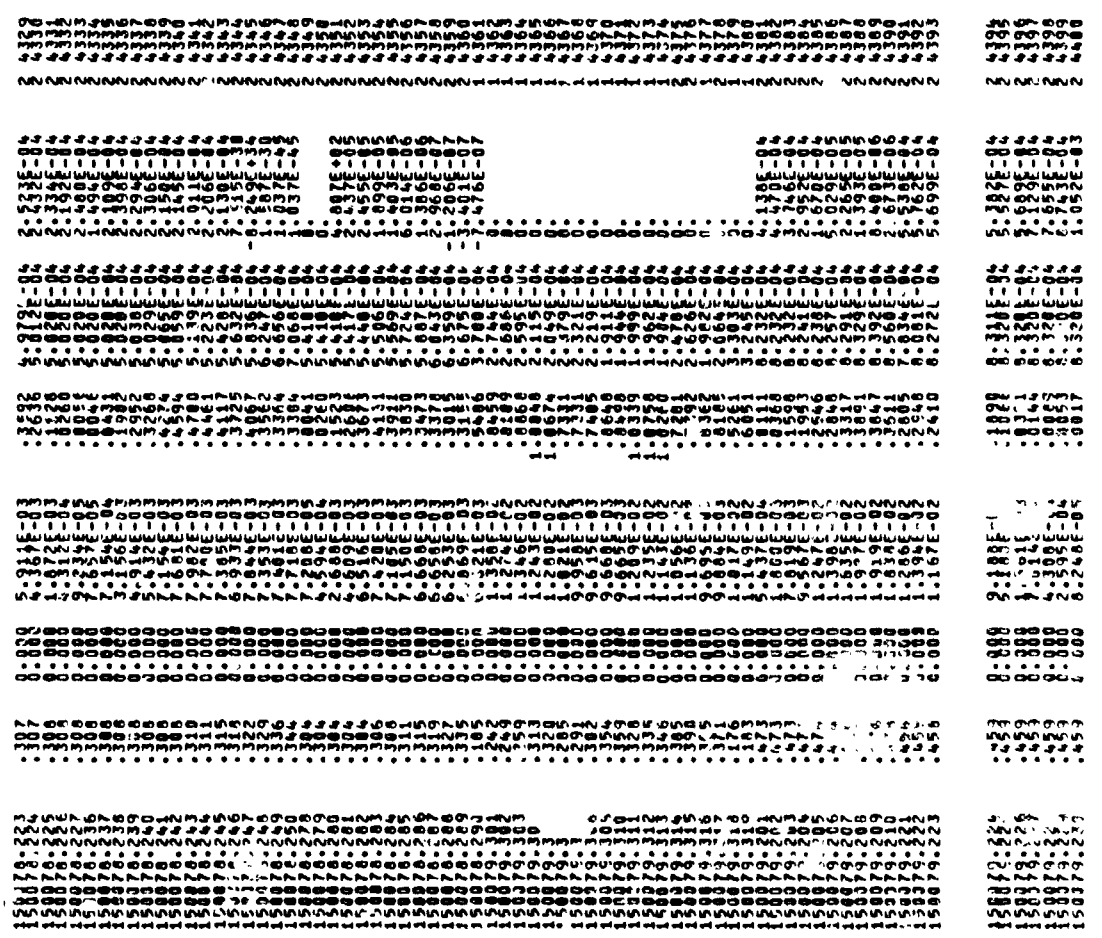






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